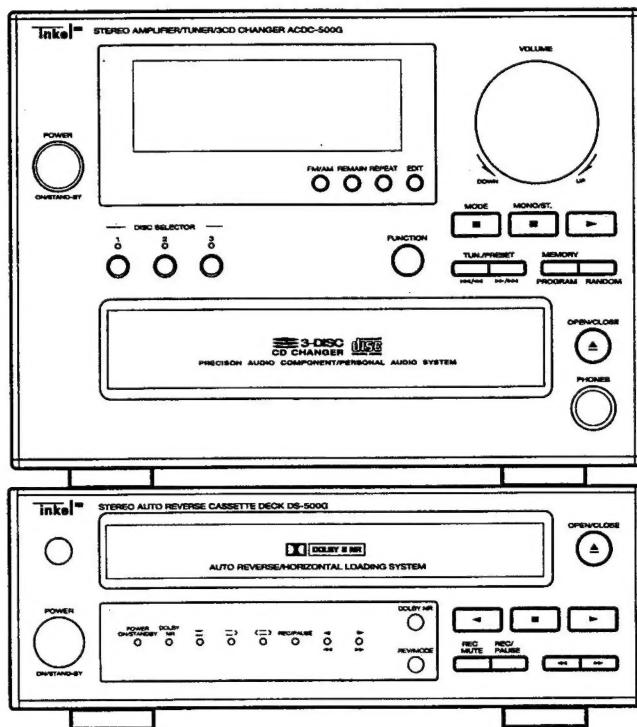


# SERVICE MANUAL

## Sherwood ANDANTE I II

HI-FI MINI COMPONENT SYSTEM



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### ACDC-500/500G

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## ◎ ACDC500/500G SPECIFICATIONS

### 1. GENERAL

(1) POWER	220V/60Hz
(2) POWER CONSUMPTION	85W
(3) DIMENSION	160(W)*140(H)*275(D)mm

### 2. AMPLIFIER

(1) OUTPUT POWER	20W/CH(6Ω)
(2) FREQUENCY RESPONSE	30Hz-20KHz
(3) S/N RATIO	70dB
(4) CHANNEL SEPARATION	45dB(1KHz)

### 3. TUNER

#### 3-1. FM SECTION

(1) TUNING COVER RANGE	87.5MHz-108MHz
(2) USABLE SENSITIVITY	10dB
(3) S/N RATIO	55dB
(4) MIDDLE RANGE FREQUENCY REJECTION RATIO	60dB
(5) DISTORTION RATIO	0.7%
(6) STEREO SEPARATION RATIO	30dB(1KHz)

#### 3-2. AM SECTION

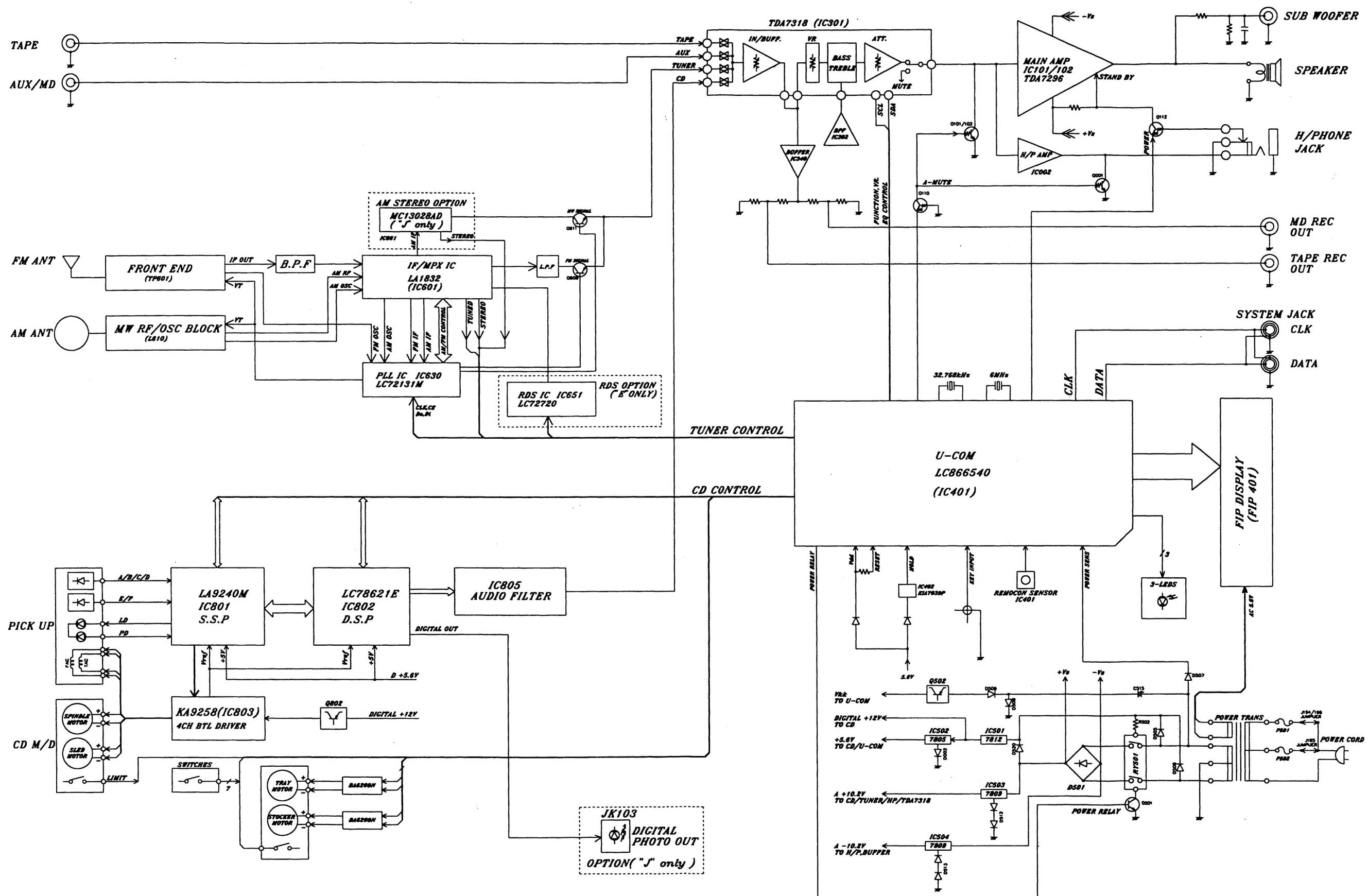
(1) TUNING COVER RANGE	522KHz-1611KHz
(2) USABLE SENSITIVITY	54dB
(3) S/N RATIO	40dB
(4) MIDDLE RANGE FREQUENCY REJECTION RATIO	45dB
(5) DISTORTION RATIO	2%

### 4. CD SECTION

(1) FREQUENCY RESPONSE	40Hz-20KHz
(2) CHANNEL SEPARATION	75dB(1KHz)
(3) DISTORTION RATIO	±0.1%
(4) S/N RATIO	85dB(1KHz)

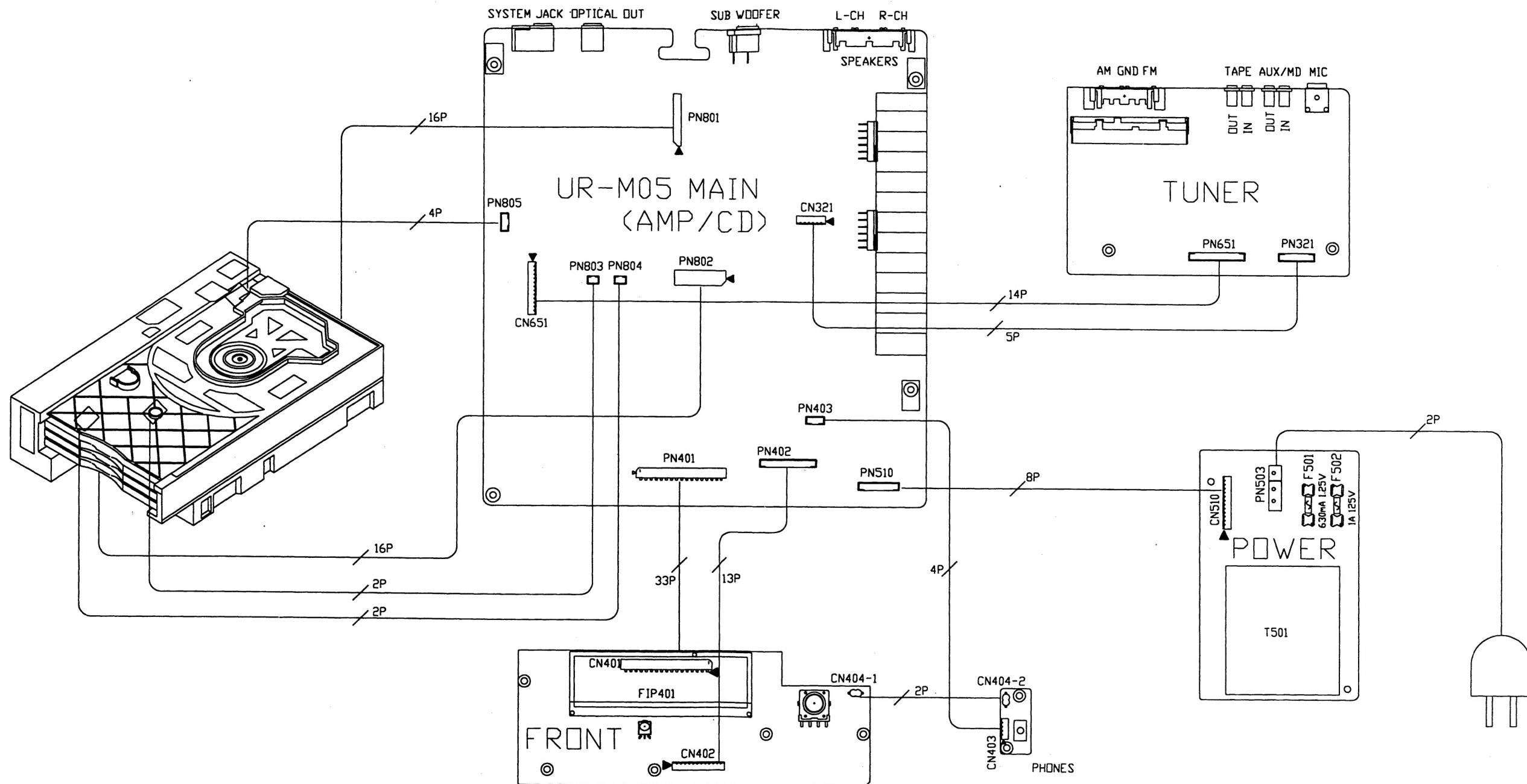
# BLOCK DIAGRAM

Model No. : ACDC-500/500G



## WIRING DIAGRAM

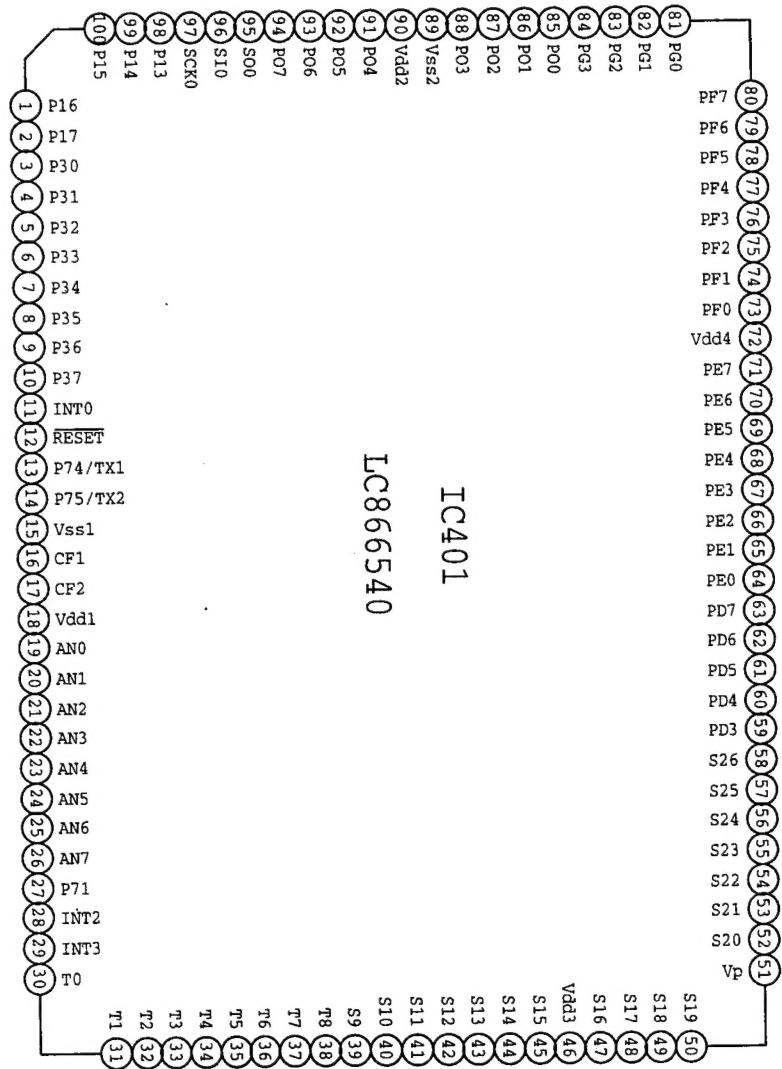
Model No. : ACDC-500/500G



## CIRCUIT DESCRIPTION

IC401 : LC866540

## 1. Pin Connection Diagram



## 2. Pin Functions

PIN NO.	NAME	I/O	ACTIVE	DESCRIPTION	REMARK
1	FEED+	O	H	CD slide motor outside signal output	
2	FEED-	O	H	CD slide motor inside signal output	
3	LIMIT	I	L	CD pick-up reading area detection signal input	
4	LIFT UP	O	H	CD mecha lift up motor output	
5	LIFT DOWN	O	H	CD mecha lift down motor output	
6	TRAYCLS	O	H	CD tray close signal output	
7	TRAY OPEN	O	H	CD tray open signal output	
8	LED1-2	O	H	CD disc1 RED LED signal output	
9	LED1-1	O	H	CD disc1 GREEN LED signal output	
10	FM BEAT	O	H	FM beat noise removal signal output	
11	P-SENS	I	L	Power failure detection signal input	
12	RESET	I	L	System reset signal input	
13	XT1	O	-	32.768kHz clock output	
14	XT2	I	-	32.768kHz clock input	
15	VSS1	I	-	GND	
16	CF1	I	-	6MHz main clock input	
17	CF2	O	-	6MHz main clock output	
18	VDD1	I	-	Power input	
19	KEY1	I	-	Front key A/D input	
20	KEY2	I	-	Front key A/D input	
21	HOM/UNC/JA	I	-	Mecha home/onclamp/jam signal input	
22	TUNED	I	L	Tuner PLL tuned input	
23	LED2-2	O	L	CD disc2 RED LED signal output	
24	LED2-1	O	L	CD disc2 GREEN LED signal output	
25	LED3-2	O	L	CD disc3 RED LED signal output	
26	LED3-1	O	L	CD disc3 GREEN LED signal output	
27	RMCN	I	L	Remocon signal input	
28	TUN SYNC	I	L	RDS decoder SYNC. signal input	
29	WRQ	I	H	CD write request signal input	
30	G1	O	H	FIP grid1 signal output	
31	G2	O	H	FIP grid2 signal output	
32	G3	O	H	FIP grid3 signal output	
33	G4	O	H	FIP grid4 signal output	
34	G5	O	H	FIP grid5 signal output	
35	G6	O	H	FIP grid6 signal output	
36	G7	O	H	FIP grid7 signal output	
37	G8	O	H	FIP grid8 signal output	
38	G9	O	H	FIP grid9 signal output	
39	G10	O	H	FIP grid10 signal output	
40	G11	O	H	FIP grid11 signal output	
41	G12	O	H	FIP grid12 signal output	
42	S12	O	-	N.C	
43	P19	O	H	FIP segment19 signal output	
44	P18	O	H	FIP segment18 signal output	
45	P17	O	H	FIP segment17 signal output	
46	VDD3	I	-	Power input	
47	P16	O	H	FIP segment16 signal output	
48	P15	O	H	FIP segment15 signal output	
49	P14	O	H	FIP segment14 signal output	

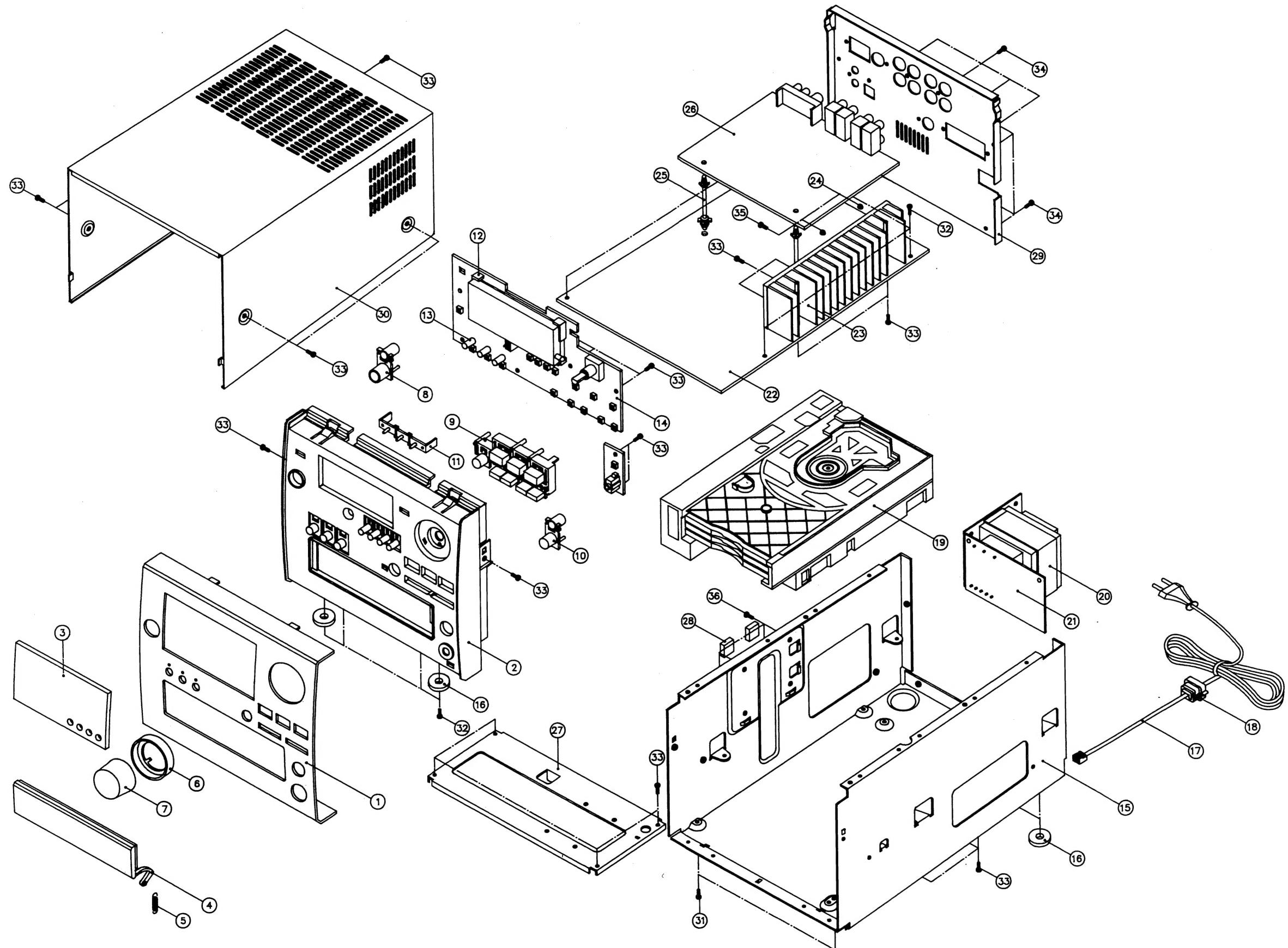
PIN NO.	NAME	I/O	ACTIVE	DESCRIPTION	REMARK
50	P13	O	H	FIP segment13 signal output	
51	Vp	I	-	FIP Vkk power input	
52	P12	O	H	FIP segment12 signal output	
53	P11	O	H	FIP segment11 signal output	
54	P10	O	H	FIP segment10 signal output	
55	P9	O	H	FIP segment9 signal output	
56	P8	O	H	FIP segment8 signal output	
57	P7	O	H	FIP segment7 signal output	
58	P6	O	H	FIP segment6 signal output	
59	P5	O	H	FIP segment5 signal output	
60	P4	O	H	FIP segment4 signal output	
61	P3	O	H	FIP segment3 signal output	
62	P2	O	H	FIP segment2 signal output	
63	P1	O	H	FIP segment1 signal output	
64	OPTION	I	-	Option input	
65	ENCODER-	I	-	Encoder volume (-) signal input	
66	ENCODER+	I	-	Encoder volume (+) signal input	
67	OPEN	I	L	CD tray open sw signal input	
68	CLOSE	I	L	CD tray close sw signal input	
69	H-CNT	I	-	CD mecha holder count signal input	
70	TU-B	I	-	CD mecha pick-up POSI. - B input	
71	TU-A	I	-	CD mecha pick-up POSI. - A input	
72	VDD4	I	-	Power input	
73	DSENS	I	L	CD disc sense signal input	
74	LOAD/CLAMP	I	L	CD mecha load/clamp signal input	
75	TUN. CE	O	H	Tuner PLL I.C chip enable output	
76	TUN. ST	I	L	Tuner stereo broadcasting signal input	
77	BUSY	I/O	H	Serial data busy signal input/output	
78	S DATA	I/O	-	Serial data input/output	
79	P-RLY	O	H	Power relay on/off signal output	
80	PF7	I	-	N.C	
81	ST-BY	O	L	Stand by mute signal output	
82	SDA	O	-	Amp TDA7318 data signal output	
83	SCL	O	-	AMP TDA7318 clock signal output	
84	A MUTE	O	H	AMP audio mute output	
85	POO	I	-	N.C	
86	CD RWC	O	H	CD ASP/DSP CMD write signal output	
87	XRST	O	L	CD ASP/DSP reset signal output	
88	CD MUTE	O	H	CD mute output	
89	VSS2	I	-	GND	
90	VDD2	I	-	Power input	
91	CD DRF	I	H	CD focus O.K signal input	
92	CD TGL	I	L	CD track jump signal input	
93	FSEQ	I	H	CD disc frame sync. OK signal input	
94	HOLD	I	L	Lowest consumption electric current mode detection signal input	
95	CD DATA	O	-	CD data signal output	
96	CD SQOUT	I	-	CD sub Q-code data signal input	
97	CD CQCK	O	-	CD sub Q-code clk signal output	
98	TUN Do	O	-	Tuner PLL data output	
99	TUN Di	I	-	Tuner PLL data input	
100	TUN CLK	O	-	Tuner PLL clock output	

## MECHANICAL PARTS LIST

NO	ITEM	Q'TY	PARTS NO.	VERSION
1	PANEL FRONT	1	3060020918010	
2	PANEL INNER	1	3060020931010	
3	WINDOW DISPLAY	1	5070020423010	
4	DOOR CD	1	5040020191010	
5	SPRING DOOR	1	3720020246010	
6	DECORATION VOLUME	1	5120020021010	
7	VOLUME ASSY	1	5088021068010	
	KNOB (URM05 ABS/ROTARY)	1	5080021051010	
	KNOB (URM05 AL EX/VOLUME)	1	5080021068010	
8	BUTTON POWER	1	5090021321010	
9	BUTTON FUNCTION	1	5090021311010	
10	BUTTON OPEN	1	5090021331010	
11	LENS DISC	1	3710020253010	
12	HOLDER FLT	1	4320020441010	
13	TUBE LED	3	1800020009010	
14	PCB FRONT ASSY	1	7028021120010	
15	CHASSIS MAIN	1	3200020556010	
16	CUSHION FOOT	4	4050020149010	
17	CORD POWER	1	L061000810010	
18	CORD STOPPER	1	4380000180000	
19	CD MECHANISM	1	8030620000010	
20	TRANS POWER	1	8200660008030	
21	PCB POWER ASSY	1	7028021112060	
22	PCB MAIN ASSY	1	7028021110060	
23	HEAT SINK MAIN	1	2120020228010	
24	SPACER	2	4300000423010	
25	SIPPORTER	2	4070001643010	
26	PCB TUNER ASSY	1	7028021111060	
27	BRACKET MAIN	1	4010020976010	
28	CUSHION MAIN A	2	4050020419010	
29	CHASSIS BACK	1	3200020546010	
30	CABINET TOP	1	3000020306010	
31	SCREW,TAP TITE (+2S 2.6*8 B-TYPE ZNY/BH)	2	B020026081B10	
32	SCREW,TAP TITE (+2S 3*6 B-TYPE ZNY/BH)	8	B020030061B10	
33	SCREW,TAP TITE (+2S 3*8 B-TYPE ZNY/BH)	26	B020030081B10	
34	SCREW,TAP TITE (+2S 3*8 B-TYPE BK/BH)	13	B020030083B10	
35	SCREW,TAP TITE (+2S 3*12 B-TYPE ZNY/BH)	2	B020030121B10	
36	SCREW,TAP TITE (+3S 4*8 S-TYPE ZNY/BH)	4	B020740081B10	
<b>MISCELLANEOUS</b>				
	BOX,GIFT	1	6000020290010	
	CUSHION (URM05 EPS)	1	6230020354010	
	CUSHION (DM03 15*5*3/MAIN)	1	4050000155010	
	POLY BAG (LD 260*390*0.03 NO-SILK)	1	6330000240000	
	POLY BAG (NITRON W470*D550*T0.5/SET)	1	6330000290000	
	ANTENNA, AM LOOP	1	E601000060000	
	ANTENNA, FM WIRE	1	E605000030000	
	INSTRUCTION MANUAL	1	5707020460100	
	INSTRUCTION MANUAL	1	5707020460120	ACDC500G
	REMOCON	1	8300000310030	
	REMOCON	1	8300000310040	ACDC500G
	BATTERY, 1.5V	1	G670011R50000	
	STOPPER AC CORD	1	4380000180000	

## EXPLODED VIEW

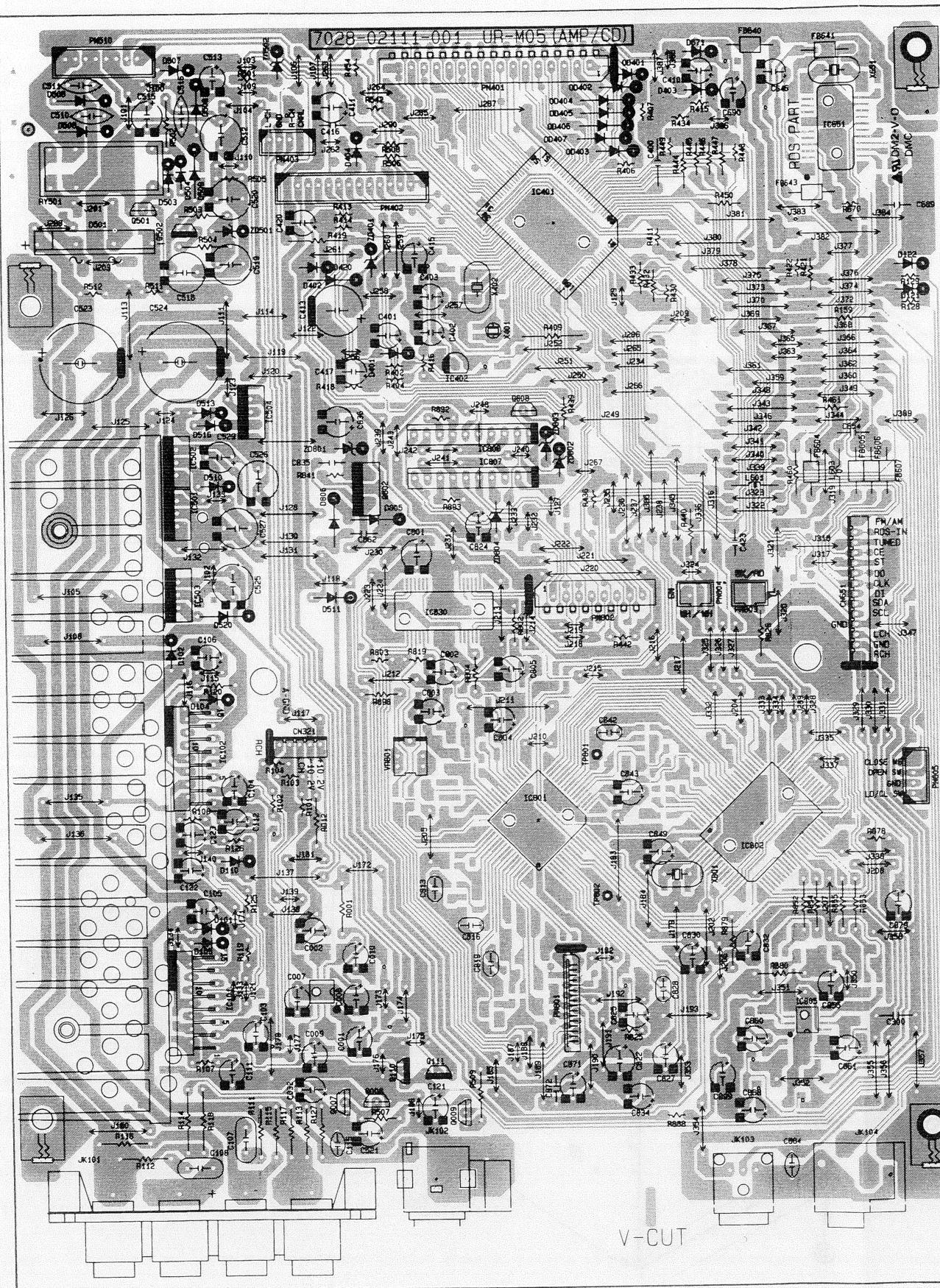
Model No. : ACDC-500/500G



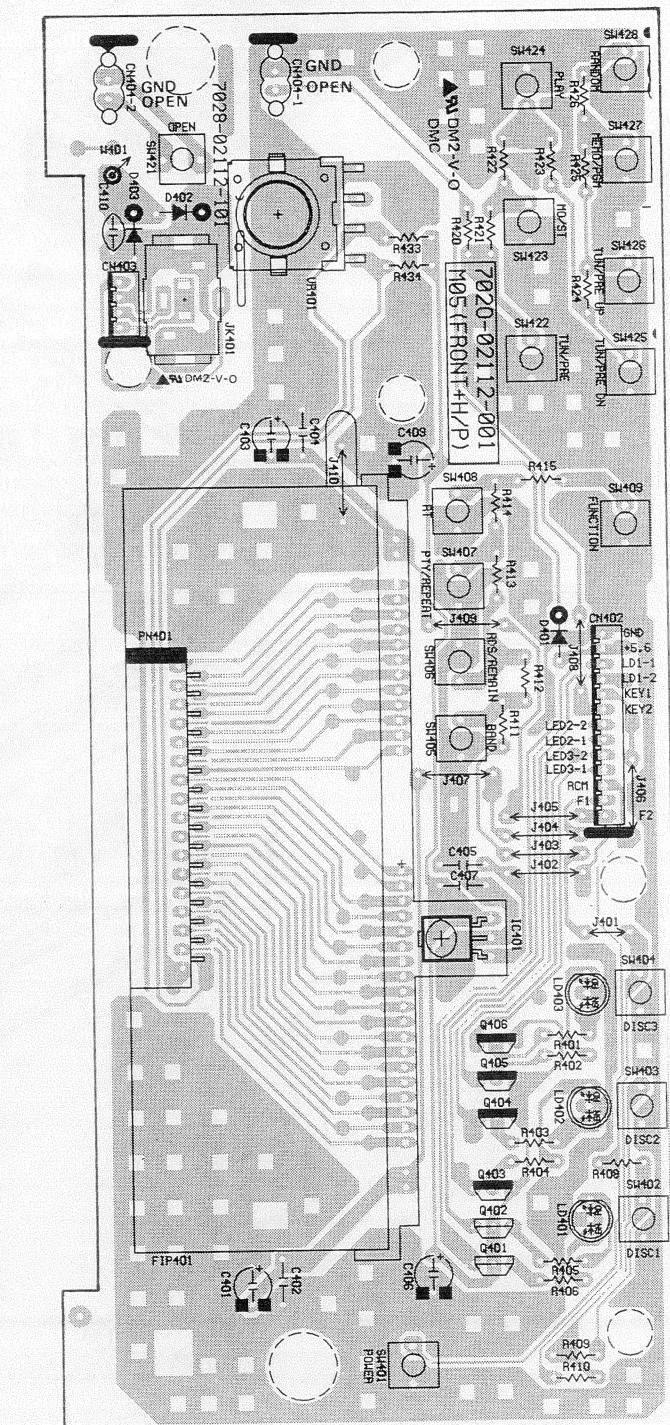
## PRINTED CIRCUIT BOARDS

**Model No. : ACDC-500/500G**

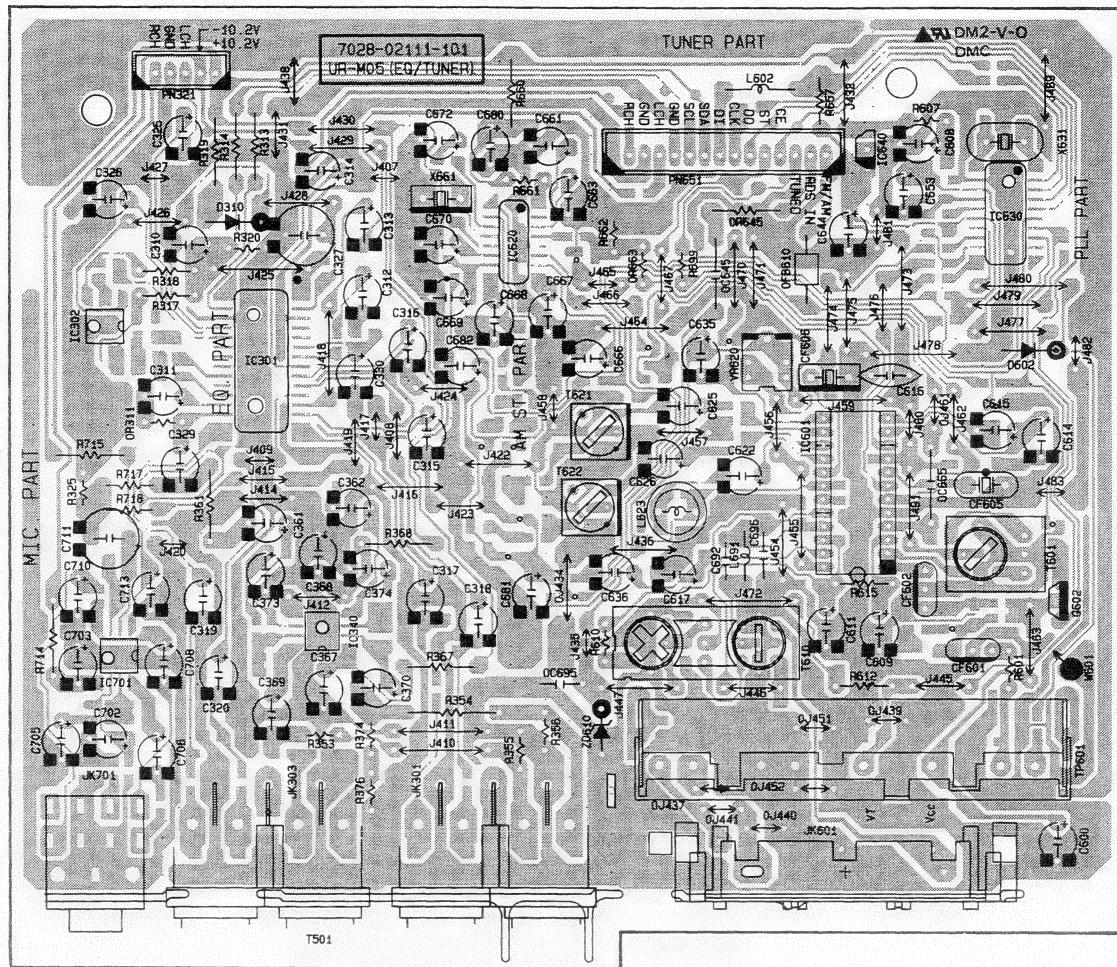
AMP+CD



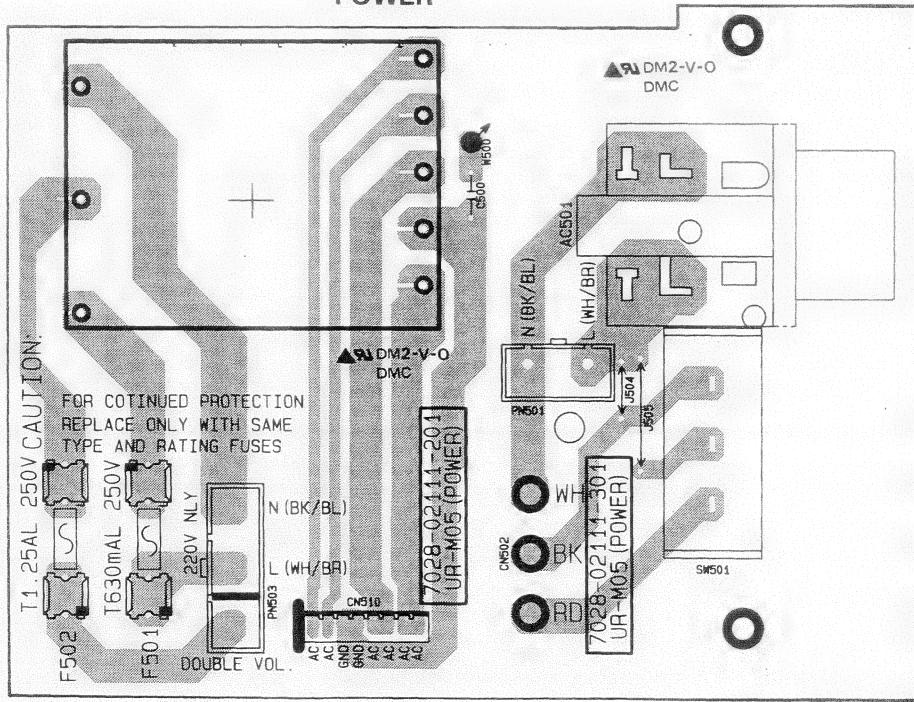
FRONT+H/P



## EQ+TUNER



## POWER



## ELECTRICAL PARTS LIST

REF NO.	ITEM			PARTS NO.	Q'TY
C001/C002	ELECT GE 85C	22 uF	50V	M	D040220087050
C003/C004	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200
C005/C006	CERAMIC CHIP T.C	10 pF	50V	D	D010100117200
C007/C008	ELECT GE 85C	100 uF	16V	M	D040101083050
C009/C010	ELECT GE 85C	47 uF	10V	M	D040470082050
C103/C104	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050
C105/C106	ELECT GE 85C	22 uF	50V	M	D040220087050
C107/C108	FILM POLYESTER	0.1 uF	50V	J	D020104167050
C109/C110	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200
C111/C112	ELECT GE 85C	22 uF	50V	M	D040220087050
C113/C114	CERAMIC CHIP HIK	0.001 uF	50V	K	D011102777200
C115	C,CERAMIC HIK DISC	0.001 uF	50V	K	D004102277050
C121	ELECT GE 85C	47 uF	10V	M	D040470082050
C122/C123	ELECT GE 85C	10 uF	50V	M	D040100087050
C155	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200
C301-C304	CERAMIC CHIP T.C	220 pF	50V	J	D010221167200
C310	ELECT GE 85C	22 uF	35V	M	D040220085050
C311/C312	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050
C313-C316	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050
C317-C320	ELECT GE 85C	10 uF	50V	M	D040100087050
C321-C324	CERAMIC CHIP HIK	0.047 uF	50V	K	D011473777200
C325/C326	ELECT GE 85C	10 uF	50V	M	D040100087050
C327	ELECT GE 85C	470 uF	10V	M	D040471082050
C329/C330	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050
C351/C352	CERAMIC CHIP T.C	220 pF	50V	J	D010221167200
C361/C362	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050
C363/C364	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200
C365/C366	CERAMIC CHIP T.C	10 pF	50V	D	D010100117200
C367/C368	ELECT GE 85C	100 uF	16V	M	D040101083050
C369/C370	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050
C371/C372	CERAMIC CHIP T.C	220 pF	50V	J	D010221167200
C373/C374	ELECT GE 85C	10 uF	50V	M	D040100087050
C400	CERAMIC HIK AXIAL	0.1 uF	16V	Z	D005104593520
C401	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050
C401/C402	ELECT GE 85C	10 uF	50V	M	D040100087050
C402	CERAMIC HIK AXIAL	0.022 uF	25V	Z	D005223594520
C403	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050
C403	ELECT GE 85C	0.33 uF	50V	M	D040R33087050
C404	CERAMIC HIK AXIAL	0.022 uF	25V	Z	D005223594520
C404/C405	CERAMIC CHIP T.C	20 pF	50V	J	D010200167200
C405	CERAMIC HIK AXIAL	100 pF	50V	K	D005101277520
C406	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200
C406	ELECT GE 85C	47 uF	10V	M	D040470082050
C407	CERAMIC HIK AXIAL	0.1 uF	16V	Z	D005104593520
C407	CERAMIC CHIP T.C	56 pF	50V	J	D010560167200

REF NO.	ITEM				PARTS NO.	Q'TY
C408	CERAMIC CHIP T.C	33 pF	50V	J	D010330167200	1
C409	CERAMIC CHIP T.C	39 pF	50V	J	D010390167200	1
C409	ELECT GE 85C	100 uF	10V	M	D040101082060	1
C410	CERAMIC HIK AXIAL	0.1 uF	16V	Z	D005104593520	1
C410/C411	ELECT GE 85C	100 uF	10V	M	D040101082050	2
C412	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C413	ELECT GE 85C	1000 uF	6.3V	M	D040102081050	1
C414	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C416	CERAMIC HIK AXIAL	0.1 uF	16V	Z	D005104593520	1
C417	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	1
C418/C419	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2
C420	ELECT GE 85C	47 uF	10V	M	D040470082050	1
C421/C422	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2
C423	CERAMIC HIK AXIAL	0.1 uF	16V	Z	D005104593520	1
C455	CERAMIC CHIP HIK	0.001 uF	50V	K	D011102777200	1
C501-C504	CERAMIC CHIP HIK	0.047 uF	50V	K	D011473777200	4
C505/C506	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	2
C508/C509	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	2
C510/C511	C,CERAMIC HIK DISC	0.01 uF	50V	K	D004103277050	2
C512	ELECT GE 85C	220 uF	25V	M	D040221084050	1
C513	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C514	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C515	ELECT GE 85C	47 uF	50V	M	D040470087050	1
C516	C,CERAMIC HIK DISC	0.01 uF	50V	K	D004103277050	1
C517	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C518-C520	ELECT GE 85C	100 uF	35V	M	D040101085050	3
C523/C524	ELECT GE 85C	3300 uF	25V	M	D040332084010	2
C525/C526	ELECT GE 85C	220 uF	16V	M	D040221083050	2
C527	C,ELECT GE 105C	470 uF	16V	M	D041471083010	1
C528	CERAMIC CHIP T.C	560 pF	50V	J	D010561167200	1
C529	ELECT GE 85C	220 uF	10V	M	D040221082060	1
C600	ELECT GE 85C	100 uF	16V	M	D040101083050	1
C601/C602	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	2
C603	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C604	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C605	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	1
C608	ELECT GE 85C	100 uF	10V	M	D040101082050	1
C609	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C610	CERAMIC CHIP HIK	0.047 uF	50V	K	D011473777200	1
C611	ELECT GE 85C	3.3 uF	50V	M	D0403R3087050	1
C612	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	1
C614	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C615	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C617	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C618	CERAMIC CHIP HIK	0.008 uF	50V	K	D011822777200	1

REF NO.	ITEM			PARTS NO.	Q'TY	
C621	CERAMIC CHIP T.C	47 pF	50V	J	D010470167200	1
C622	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C623/C624	CERAMIC CHIP HIK	0.027 uF	50V	K	D011273777200	2
C625/C626	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050	2
C627/C628	CERAMIC CHIP HIK	0.007 uF	50V	K	D011682777200	2
C630/C631	CERAMIC CHIP T.C	33 pF	50V	J	D010330167200	2
C632/C633	CERAMIC CHIP HIK	0.001 uF	50V	K	D011102777200	2
C634	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C635	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	1
C636	ELECT GE 85C	22 uF	35V	M	D040220085050	1
C637	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C644	ELECT GE 85C	100 uF	10V	M	D040101082050	1
C645	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	1
C653	ELECT GE 85C	0.47 uF	50V	M	D040R47087050	1
C701	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1
C702	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C703	ELECT GE 85C	100 uF	16V	M	D040101083050	1
C704	CERAMIC CHIP T.C	220 pF	50V	J	D010221167200	1
C705	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C706	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C708	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C709	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1
C710	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C711	ELECT GE 85C	330 uF	10V	M	D040331082050	1
C713	ELECT GE 85C	100 uF	16V	M	D040101083050	1
C801	ELECT GE 85C	220 uF	16V	M	D040221083050	1
C802	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C803	ELECT GE 85C	0.22 uF	50V	M	D040R22087050	1
C804	ELECT GE 85C	0.47 uF	50V	M	D040R47087050	1
C805	ELECT GE 85C	47 uF	10V	M	D040470082050	1
C806	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C807	CERAMIC CHIP HIK	0.015 uF	50V	K	D011153777200	1
C808	CERAMIC CHIP HIK	0.018 uF	50V	K	D011183777200	1
C809	CERAMIC CHIP HIK	0.003 uF	50V	K	D011332777200	1
C810	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1
C811	CERAMIC CHIP HIK	0.003 uF	50V	K	D011332777200	1
C812	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C813	FILM POLYESTER	0.1 uF	50V	J	D020104167050	1
C815	CERAMIC CHIP HIK	0.0015 uF	50V	K	D011152777200	1
C816	FILM POLYESTER (ECQ-BIH473JF3)				D020473067050	1
C817	CERAMIC CHIP T.C	330 pF	50V	J	D010331167200	1
C818	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C819	FILM POLYESTER	0.033 uF	50V	J	D020333167050	1
C822	ELECT GE 85C	10 uF	25V	M	D040100084050	1
C823	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1

REF NO.	ITEM	100 uF	25V	M	PARTS NO.	Q'TY
C824	ELECT GE 85C	100 uF	25V	M	D040101084050	1
C825	ELECT GE 85C	47 uF	10V	M	D040470082050	1
C826	CERAMIC CHIP HIK	0.001 uF	50V	K	D011102777200	1
C827	ELECT GE 85C	0.33 uF	50V	M	D040R33087050	1
C828	FILM POLYESTER	0.1 uF	50V	J	D020104167050	1
C829	CERAMIC CHIP HIK	0.047 uF	50V	K	D011473777200	1
C830	ELECT GE 85C	10 uF	25V	M	D040100084050	1
C831	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C832	ELECT GE 85C	100 uF	10V	M	D040101082050	1
C833	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C834	ELECT GE 85C	100 uF	10V	M	D040101082050	1
C835	CERAMIC HIK AXIAL	0.001 uF	50V	K	D005102277520	1
C836	ELECT GE 85C	100 uF	16V	M	D040101083050	1
C838	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C839	CERAMIC CHIP HIK	0.033 uF	50V	K	D011333777200	1
C840	CERAMIC CHIP T.C	10 pF	50V	D	D010100117200	1
C841	CERAMIC CHIP T.C	2.2 pF	50V	C	D0102R2107200	1
C842	FILM POLYESTER	0.01 uF	50V	F	D020103167050	1
C843	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	1
C844/C845	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	2
C846	CERAMIC CHIP T.C	220 pF	50V	J	D010221167200	1
C847	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C848	CERAMIC CHIP T.C	82 pF	50V	J	D010820167200	1
C849	ELECT GE 85C	100 uF	10V	M	D040101082050	1
C850/C851	CERAMIC CHIP T.C	20 pF	50V	J	D010200167200	2
C852	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C853/C854	CERAMIC CHIP T.C	220 pF	50V	J	D010221167200	2
C855	ELECT GE 85C	220 uF	10V	M	D040221082060	1
C856-C859	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	4
C860/C861	ELECT GE 85C	10 uF	25V	M	D040100084050	2
C862	CERAMIC HIK AXIAL	560 pF	50V	K	D005561277520	1
C863	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C864-C867	CERAMIC CHIP HIK	0.001 uF	50V	K	D011102777200	4
C868	ELECT GE 85C	10 uF	50V	M	D040100087050	1
C871	ELECT GE 85C	47 uF	10V	M	D040470082050	1
C872	CERAMIC HIK AXIAL	0.1 uF	16V	Z	D005104593520	1
C879	ELECT GE 85C	220 uF	10V	M	D040221082060	1
C880	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C884	C,CERAMIC HIK DISC	0.1 uF	50V	Z	D004104597060	1
C885	CERAMIC CHIP HIK	0.1 uF	50V	Z	D011104597200	1
C886	CERAMIC CHIP HIK	0.001 uF	50V	K	D011102777200	1
C887	CERAMIC CHIP HIK	0.22 uF	50V	Z	D011224597200	1
C888	CERAMIC CHIP HIK	0.015 uF	50V	K	D011153777200	1
C889	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	1
C890/C891	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	2

REF NO.	ITEM	PARTS NO.	Q'TY
C892/C893	CERAMIC CHIP HIK 0.1 uF 50V Z	D011104597200	2
C894/C895	CERAMIC CHIP T.C 470 pF 50V J	D010471167200	2
C899	CERAMIC CHIP HIK 0.001 uF 50V K	D011102777200	1
C900	CERAMIC CHIP HIK 0.022 uF 50V K	D011223777200	1
C901	CERAMIC CHIP HIK 0.047 uF 50V K	D011473777200	1
C902/C903	CERAMIC CHIP HIK 0.1 uF 50V Z	D011104597200	2
C999	ELECT GE 85C 100 uF 16V M	D040101083050	1
CF601	FILTER,CERAMIC FM (SFE10.7MA5)	E43010R700300	1
CF602	FILTER,CERAMIC FM (SFE10.7MA5)	E43010R700300	1
CF605	FILTER,CERAMIC FM (CDA10.7MG46-A)	E43010R700810	1
CF606	RESONATOR,CERAMIC (CSB456F15)	E830456000030	1
CN321	WIRE (5P)	L000800050010	1
CN401	CABLE,FLAT CARD (33P)	L301121330010	1
CN402	WIRE (13P)	L000131130010	1
CN403	WIRE (4P)	L000201040030	1
CN510	WIRE (8P)	L000151080020	1
CN651	WIRE (14P)	L000121140010	1
CN801	CABLE,FLAT CARD (16P)	L301181160010	1
CN802	CABLE,FLAT CARD (16P)	L301481160010	1
D101/D102	1SS131T, SWITCHING	K000013100520	2
D104/D105	1SS131T, SWITCHING	K000013100520	2
D110	1SS131T, SWITCHING	K000013100520	1
D121	1SS131T, SWITCHING	K000013100520	1
D122	1SS131T, SWITCHING	K000013100520	1
D310	1SS131T, SWITCHING	K000013100520	1
D401	1SS131T, SWITCHING	K000013100520	1
D402/D403	1SS131T, SWITCHING	K000013100520	2
D404	1SS131T, SWITCHING	K000013100520	1
D406	1SS131T, SWITCHING	K000013100520	1
D420	1SS131T, SWITCHING	K000013100520	1
D501	D3SB20/DBF40C (5A-4PIN), BRIDGE	K047004000010	1
D503/D504	1SS131T, SWITCHING	K000013100520	2
D505/D506	1N4002A, RECTIFIER	K040400200520	2
D507	1SS131T, SWITCHING	K000013100520	1
D508/D509	1N4002A, RECTIFIER	K040400200520	2
D510/D511	1SS131T, SWITCHING	K000013100520	2
D512	KDS226ST1, SWITCHING CHIP	K005022600010	1
D513	1SS131T, SWITCHING	K000013100520	1
D516	1SS131T, SWITCHING	K000013100520	1
D520	1N4002A, RECTIFIER	K040400200520	1
D602	1SS131T, SWITCHING	K000013100520	1
D603	KDS226ST1, SWITCHING CHIP	K005022600010	1
D805/D806	1N4002A, RECTIFIER	K040400200520	2
D900/D901	KDS226ST1, SWITCHING CHIP	K005022600010	2
FB605	COIL (BFS2550A0F1)	D320255000520	1

REF NO.	ITEM	PARTS NO.	Q'TY
FB606	COIL (BFS2550A0F1)	D320255000520	1
FB607	COIL (BFS2550A0F1)	D320255000520	1
FIP401	DISPLAY,FLT (SVA-12MM11)	K530000400010	1
IC002	KIA4558F, OP (8P)	J121455800070	1
IC101/IC102	TDA7296, POWER (15P)	J122729600010	2
IC301	TDA7318D, EQ (28P)	J123731800010	1
IC302	KIA4558F, OP (8P)	J121455800070	1
IC360	KIA4558F, OP (8P)	J121455800070	1
IC401	MODULE, REMOCON (PNA4602MOOLB)	E940460200020	1
IC401	LC866540A-5G92, CPU MICRO (100P)	J020866540010	1
IC402	KIA7039P, RESET (3.9V)	J125703900000	1
IC501	KIA7812PI, REGULATOR (20W)	J126781200040	1
IC502	KIA7805PI, REGULATOR (20W)	J126780500110	1
IC503	KIA7809PI, REGULATOR (20W)	J126780900020	1
IC504	NJM79M09FA, REGULATOR (7.5W)	J126790900010	1
IC601	LA1832, LINEAR RF (DIP24)	J124183200010	1
IC630	LC72131M, PLL (20P)	J120721310010	1
IC640	KIA78S05P, REGULATOR (0.6W)	J126780500070	1
IC701	KIA4558F, LINEAR OP (8P)	J121455800070	1
IC801	LA9240M, RF SERVO (64P)	J032924000010	1
IC802	LC78621E, DSP (80P)	J031786210010	1
IC803	KA9258D, DRIVER (28P)	J127925800010	1
IC805	KIA4558F, OP (8P)	J121455800070	1
IC807/IC808	BA6209N, VOLUME (10P)	J127620900010	2
J001	CHIP THICK O Ohm 1/10W J	C200000060200	1
J100-140	WIRE (1P)	L045084006040	41
J171-193	WIRE (1P)	L045084006040	23
J201-224	WIRE (1P)	L045084006040	24
J230-243	WIRE (1P)	L045084006040	14
J312/J313	CHIP THICK O Ohm 1/10W J	C200000060200	2
J316-389	CN,WIRE (1P)	L045084006040	4
J401	CHIP THICK O Ohm 1/10W J	C200000060200	1
J443	CHIP THICK O Ohm 1/10W J	C200000060200	1
J463	COIL, FILTER (BFS2550A0F1, 52MM)	D320255000520	1
J490	CHIP THICK O Ohm 1/10W J	C200000060200	1
J492/J493	CHIP THICK O Ohm 1/10W J	C200000060200	2
J621	CHIP THICK O Ohm 1/10W J	C200000060200	1
J801	CHIP THICK O Ohm 1/10W J	C200000060200	1
JK101	PUSH SW (4P)	G040404204500	1
JK102	TER,RCA 1PIN	G600010127010	1
JK103	MODULE (OPTICAL TRANS)	E100132000010	1
JK104	JACK,D3.5	G401496000000	1
JK301	RCA 4PIN	G602040045000	1
JK303	RCA 4PIN	G602040045000	1
JK401	JACK,D3.5	G401035180010	1

REF NO.	ITEM	PARTS NO.	Q'TY
JK601	PUSH SW BLOCK (ANT 4P)	G040105800000	1
JK701	JACK,D3.5	G401035100010	1
L601	FILTER-INDUCTOR (10UH)	D330100700520	1
L602	FILTER-INDUCTOR (10UH)	D330100700520	1
L603	FILTER-INDUCTOR (10UH)	D330100700520	1
LD401-LD403	LED,ROUND	K500052010010	4
OC619	CERAMIC CHIP T.C 820 pF 50V J	D010821167200	1
OC638/OC639	CERAMIC CHIP HIK 0.01 uF 50V Z	D011103597200	2
OC695	CERAMIC HIK AXIAL 0.047 uF 50V Z	D005473597520	1
OD404	1SS131T, SWITCHING	K000013100520	1
OD406	1SS131T, SWITCHING	K000013100520	1
OJ448-OJ450	CHIP THICK 0 Ohm 1/10W J	C200000060200	3
OJ603/OJ604	CHIP THICK 0 Ohm 1/10W J	C200000060200	2
OJ613	CHIP THICK 0 Ohm 1/10W J	C200000060200	1
OJ683	CHIP THICK 0 Ohm 1/10W J	C200000060200	1
OR311	CARBON FILM 1 Kohm 1/5W J	C00001026P520	1
OR312	CHIP THICK 1 Kohm 1/10W J	C200010260200	1
OR605	CHIP THICK 33 Ohm 1/10W J	C200033060200	1
PN321	CN.WAFER 2.0MM (5P)	L101530140510	1
PN401	CN.FPC 1.25MM (33P)	L131520443300	1
PN401	CN.FPC 1.25MM (33P)	L131520453300	1
PN402	CN.WAFER 2.0MM (13P)	L101530141310	1
PN403	CN.WAFER 2.0MM (4P)	L101530140410	1
PN404-1	CABLE,HOLDER 2.5MM (2P)	L112510520200	1
PN404-2	CABLE,HOLDER 2.5MM (2P)	L112510520200	1
PN404-2	WIRE,FLAT 2877 2.5MM (2P)	L320101022610	1
PN503	CN.WAFER 7.92MM (2P)	L108353102000	1
PN510	CN.WAFER 2.0MM (8P)	L101530140810	1
PN651	CN.WAFER 2.0MM (14P)	L101530141410	1
PN801	CN.FPC 1.0MM (16P)	L130528061610	1
PN802	CN.FPC 1.25MM (16P)	L131520451610	1
PN803	CN.WAFER 2.0MM (2P, WH)	L101220020020	1
PN804	CN.WAFER 2.0MM (2P, GREEN)	L101220020030	1
PN805	CN,WIRE (4P)	L000201040020	1
PN805	CN.WAFER 2.0MM (4P)	L101530140410	1
Q001/Q002	DTC343TK (0.2W), NPN	J5220343T0210	2
Q101/Q102	DTC343TK (0.2W), NPN	J5220343T0210	2
Q110/Q111	DTA144ES (0.3W), PNP	J6000144E0010	2
Q112	DTA114EK (1.2W), PNP	J5200114E0210	1
Q401	KTC3875Y (0.15W), NPN	J5223875Y0210	1
Q401/Q402	KTC3199Y (0.4W), NPN	J5023199Y0010	2
Q402	DTC143TK (0.2W), NPN	J5220143T0210	1
Q403-Q406	DTA114ES (0.3W), PNP	J6000114E0010	4
Q501	KTC2236A(KTC3205), NPN	J5023205Y0000	1
Q502	KTA1273Y (1W), PNP	J5001273Y0050	1

REF NO.	ITEM	PARTS NO.	Q'TY
Q601	KTC3879Y (0.2W), NPN	J5223879Y0210	1
Q602	DTA144ES (0.3W), PNP	J6000144E0010	1
Q603	DTC143TK (0.2W), NPN	J5220143T0210	1
Q604/Q605	DTC114EK (0.2W), NPN	J5220114E0210	2
Q630	DTC114EK (0.2W), NPN	J5220114E0210	1
Q801	KTA1504Y (0.15W), PNP	J5201504Y0210	1
Q802	KSD882Y (1W), NPN	J5030882Y0120	1
Q803	DTC115TK (0.2W), NPN	J5220115T0210	1
Q805/Q806	DTC343TK (0.2W), NPN	J5220343T0210	2
Q807	DTA114EK (0.2W), PNP	J5200114E0210	1
R001	CARBON FILM 100 Ohm 1/4W J	C000010163520	1
R002/R003	CHIP THICK 1 Kohm 1/10W J	C200010260200	2
R004/R005	CHIP THICK 18 Kohm 1/10W J	C200018360200	2
R006/R007	CHIP THICK 68 Ohm 1/10W J	C200068060200	2
R008/R009	CHIP THICK 1 Kohm 1/10W J	C200010260200	2
R012	CARBON FILM 100 Ohm 1/4W J	C000010163520	1
R101/R102	CARBON FILM 3.3 Kohm 1/5W J	C00003326P520	2
R103/R104	CARBON FILM 2.2 Kohm 1/5W J	C00002226P520	2
R105/ R106	CHIP THICK 22 Kohm 1/10W J	C200022360200	2
R107/R108	CARBON FILM 330 Ohm 1/5W J	C00003316P520	2
R109/R110	CHIP THICK 22 Kohm 1/10W J	C200022360200	2
R111/R112	CARBON FILM 4.7 Ohm 1/4W J	C0004R7063520	2
R115/R116	CARBON FILM 1 Kohm 1/4W J	C000010263520	2
R117/R118	CARBON FILM 12 Kohm 1/4W J	C000012363520	2
R119/R120	CARBON FILM 100 Kohm 1/5W J	C00001046P520	2
R123	CHIP THICK 4.7 Kohm 1/10W J	C200047260200	1
R124	CHIP THICK 68 Kohm 1/10W J	C200068360200	1
R125	CARBON FILM 22 Kohm 1/5W J	C00002236P520	1
R126	CARBON FILM 47 Kohm 1/5W J	C00004736P520	1
R127	CARBON FILM 1.5 Kohm 1/4W J	C000015263520	1
R128/R129	CARBON FILM 1 Kohm 1/5W J	C00001026P520	2
R155	CHIP THICK 1 Kohm 1/10W J	C200010260200	1
R159	CARBON FILM 470 Ohm 1/5W J	C00004716P520	1
R160	CHIP THICK 2.2 Kohm 1/10W J	C200022260200	1
R301/R302	CHIP THICK 15 Kohm 1/10W J	C200015360200	2
R303/R304	CHIP THICK 39 Kohm 1/10W J	C200039360200	2
R305/R306	CHIP THICK 15 Kohm 1/10W J	C200015360200	2
R307/R308	CHIP THICK 39 Kohm 1/10W J	C200039360200	2
R313/R314	CARBON FILM 10 Kohm 1/5W J	C00001036P520	2
R315/R316	CHIP THICK 3.9 Kohm 1/10W J	C200039260200	2
R317/R318	CARBON FILM 560 Kohm 1/5W J	C00005646P520	2
R319	CARBON FILM 10 Ohm 1/4W J	C000010063520	1
R320	CARBON FILM 1 Kohm 1/5W J	C00001026P520	1
R321	CHIP THICK 1 Kohm 1/10W J	C200010260200	1
R325	CARBON FILM 100 Kohm 1/5W J	C00001046P520	1

REF NO.	ITEM	PARTS NO.	Q'TY	
R326/R327	CHIP THICK	100 Ohm 1/10W J	C200010160200	2
R353/R354	CARBON FILM	1 Kohm 1/5W J	C00001026P520	2
R355-R376	CARBON FILM	47 Kohm 1/5W J	C00004736P520	22
R361	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R362	CHIP THICK	1 Kohm 1/10W J	C200010260200	1
R363-R366	CHIP THICK	47 Kohm 1/10W J	C200047360200	4
R367	CARBON FILM	100 Ohm 1/4W J	C000010163520	1
R368	CARBON FILM	100 Ohm 1/4W J	C000010163520	1
R369/R370	CHIP THICK	47 Kohm 1/10W J	C200047360200	2
R373	CHIP THICK	1 Kohm 1/10W J	C200010260200	1
R374	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R375	CHIP THICK	47 Kohm 1/10W J	C200047360200	1
R397/R398	CHIP THICK	1 Kohm 1/10W J	C200010260200	2
R401	CARBON FILM	270 Ohm 1/5W J	C00002716P520	1
R401	CHIP THICK	10 Kohm 1/10W J	C200010360200	1
R402	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R402	CARBON FILM	330 Ohm 1/5W J	C00003316P520	1
R403	CARBON FILM	270 Ohm 1/5W J	C00002716P520	1
R404	CARBON FILM	330 Ohm 1/5W J	C00003316P520	1
R404	CARBON FILM	10 Kohm 1/5W J	C00001036P520	1
R405	CARBON FILM	270 Ohm 1/5W J	C00002716P520	1
R405	CHIP THICK	10 Kohm 1/10W J	C200010360200	1
R406	CARBON FILM	220 Ohm 1/5W J	C00002216P520	1
R406	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R407	CARBON FILM	47 Kohm 1/5W J	C00004736P520	1
R408	CARBON FILM	680 Ohm 1/5W J	C00006816P520	1
R409	CARBON FILM	47 Kohm 1/4W J	C000047363520	1
R409	CARBON FILM	820 Ohm 1/5W J	C00008216P520	1
R410	CARBON FILM	1.2 Kohm 1/5W J	C00001226P520	1
R411	CARBON FILM	10 Kohm 1/5W J	C00001036P520	1
R411	CARBON FILM	1.5 Kohm 1/5W J	C00001526P520	1
R412	CARBON FILM	2.2 Kohm 1/5W J	C00002226P520	1
R413	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R413/R414	CARBON FILM	10 Kohm 1/5W J	C00001036P520	2
R414	CARBON FILM	4.7 Kohm 1/5W J	C00004726P520	1
R415	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R415	CARBON FILM	8.2 Kohm 1/5W J	C00008226P520	1
R416	CARBON FILM	10 Kohm 1/5W J	C00001036P520	1
R417	CHIP THICK	22 Kohm 1/10W J	C200022360200	1
R418	CARBON FILM	10 Kohm 1/5W J	C00001036P520	1
R419	CARBON FILM	2.2 Kohm 1/4W J	C000022263520	1
R420	CARBON FILM	680 Ohm 1/5W J	C00006816P520	1
R420	CHIP THICK	1 Kohm 1/10W J	C200010260200	1
R421	CARBON FILM	820 Ohm 1/5W J	C00008216P520	1
R421/R422	CARBON FILM	10 Kohm 1/5W J	C00001036P520	2

REF NO.	ITEM	PARTS NO.	Q'TY	
R422	CARBON FILM	1.2 Kohm 1/5W J	C00001226P520	1
R423	CARBON FILM	1.5 Kohm 1/5W J	C00001526P520	1
R423	CHIP THICK	10 Kohm 1/10W J	C200010360200	1
R424	CARBON FILM	2.2 Kohm 1/5W J	C00002226P520	1
R425	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R425	CHIP THICK	10 Mohm 1/10W J	C200010660200	1
R426	CARBON FILM	4.7 Kohm 1/5W J	C00004726P520	1
R426	CHIP THICK	100 Kohm 1/10W J	C200010460200	1
R431	CHIP THICK	10 Kohm 1/10W J	C200010360200	1
R432-R434	CARBON FILM	10 Kohm 1/5W J	C00001036P520	3
R433/R434	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	2
R435	CHIP THICK	8.2 Kohm 1/10W J	C200082260200	1
R436	CARBON FILM	18 Kohm 1/5W J	C00001836P520	1
R437	CHIP THICK	39 Kohm 1/10W J	C200039360200	1
R438	CHIP THICK	47 Kohm 1/10W J	C200047360200	1
R439	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R440	CARBON FILM	8.2 Kohm 1/5W J	C00008226P520	1
R441	CHIP THICK	8.2 Kohm 1/10W J	C200082260200	1
R442	CARBON FILM	8.2 Kohm 1/5W J	C00008226P520	1
R444-R450	CARBON FILM	10 Kohm 1/5W J	C00001036P520	7
R451	CHIP THICK	100 Kohm 1/10W J	C200010460200	1
R453	CHIP THICK	100 Kohm 1/10W J	C200010460200	1
R454	CARBON FILM	100 Kohm 1/5W J	C00001046P520	1
R455-R458	CHIP THICK	100 Kohm 1/10W J	C200010460200	4
R461	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R501	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R502	CARBON FILM	150 Ohm 1/4W J	C000015163520	1
R503	CARBON FILM	2.2 Kohm 1/4W J	C000022263520	1
R504	CARBON FILM	560 Ohm 1/4W J	C000056163520	1
R505/R506	CARBON FILM	10 Kohm 1/5W J	C00001036P520	2
R508	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R542	CARBON FILM	100 Kohm 1/5W J	C00001046P520	1
R600	CHIP THICK	330 Ohm 1/10W J	C200033160200	1
R601	CARBON FILM	100 Ohm 1/5W J	C00001016P520	1
R602	CHIP THICK	3.3 Kohm 1/10W J	C200033260200	1
R603	CHIP THICK	680 Ohm 1/10W J	C200068160200	1
R604	CHIP THICK	330 Ohm 1/10W J	C200033160200	1
R606	CHIP THICK	330 Ohm 1/10W J	C200033160200	1
R607	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R609	CHIP THICK	100 Ohm 1/10W J	C200010160200	1
R610	CARBON FILM	22 Ohm 1/5W J	C00002206P520	1
R611	CHIP THICK	5.6 Kohm 1/10W J	C200056260200	1
R612	CARBON FILM	1 Kohm 1/5W J	C00001026P520	1
R613	CHIP THICK	82 Kohm 1/10W J	C200082360200	1
R615	CARBON FILM	6.8 Kohm 1/5W J	C00006826P520	1

REF NO.	ITEM	PARTS NO.	Q'TY
R617	CHIP THICK	10 Kohm 1/10W J	C200010360200
R618	CHIP THICK	270 Ohm 1/10W J	C200027160200
R619	CHIP THICK	3.3 Kohm 1/10W J	C200033260200
R621	CHIP THICK	10 Kohm 1/10W J	C200010360200
R622	CHIP THICK	150 Kohm 1/10W J	C200015460200
R623/R624	CHIP THICK	1.8 Kohm 1/10W J	C200018260200
R625/R626	CHIP THICK	3.3 Kohm 1/10W J	C200033260200
R627-R629	CHIP THICK	10 Kohm 1/10W J	C200010360200
R632	CHIP THICK	10 Kohm 1/10W J	C200010360200
R633/R634	CHIP THICK	3.3 Kohm 1/10W J	C200033260200
R635	CHIP THICK	1.5 Kohm 1/10W J	C200015260200
R636	CHIP THICK	1 Kohm 1/10W J	C200010260200
R637	CHIP THICK	10 Kohm 1/10W J	C200010360200
R639	CHIP THICK	2.2 Kohm 1/10W J	C200022260200
R648	CHIP THICK	10 Kohm 1/10W J	C200010360200
R657	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520
R671	CHIP THICK	10 Kohm 1/10W J	C200010360200
R688/R689	CHIP THICK	1 Kohm 1/10W J	C200010260200
R699	CARBON FILM	1 Kohm 1/5W J	C00001026P520
R701	CHIP THICK	1 Kohm 1/10W J	C200010260200
R702-R704	CHIP THICK	10 Kohm 1/10W J	C200010360200
R705	CHIP THICK	390 Ohm 1/10W J	C200039160200
R707	CHIP THICK	1 Kohm 1/10W J	C200010260200
R710/R711	CHIP THICK	22 Kohm 1/10W J	C200022360200
R712	CHIP THICK	15 Kohm 1/10W J	C200015360200
R714	CARBON FILM	10 Ohm 1/4W J	C000010063520
R715	CARBON FILM	100 Ohm 1/4W J	C000010163520
R717/R718	CARBON FILM	1 Kohm 1/5W J	C00001026P520
R800	CHIP THICK	100 Ohm 1/10W J	C200010160200
R801	CHIP THICK	51 Kohm 1/10W J	C200051360200
R802	CARBON FILM	6.8 Kohm 1/5W J	C00006826P520
R803	CARBON FILM	100 Ohm 1/5W J	C00001016P520
R804	CARBON FILM	100 Ohm 1/5W J	C00001016P520
R805	CHIP THICK	56 Kohm 1/10W J	C200056360200
R806	CHIP THICK	22 Kohm 1/10W J	C200022360200
R807	CHIP THICK	27 Kohm 1/10W J	C200027360200
R808	CHIP THICK	68 Kohm 1/10W J	C200068360200
R809	CHIP THICK	15 Kohm 1/10W J	C200015360200
R810	CHIP THICK	1.5 Kohm 1/10W J	C200015260200
R812	CHIP THICK	33 Kohm 1/10W J	C200033360200
R813	CHIP THICK	1 Kohm 1/10W J	C200010260200
R814	CHIP THICK	56 Kohm 1/10W J	C200056360200
R815	CHIP THICK	39 Kohm 1/10W J	C200039360200
R816	CHIP THICK	6.8 Kohm 1/10W J	C200068260200
R817/R818	CHIP THICK	270 Kohm 1/10W J	C200027460200

REF NO.	ITEM	PARTS NO.	Q'TY
R819	CARBON FILM 150 Kohm 1/5W J	C00001546P520	1
R820	CHIP THICK 10 Kohm 1/10W J	C200010360200	1
R821	CHIP THICK 68 Kohm 1/10W J	C200068360200	1
R823	CHIP THICK 3.3 Kohm 1/10W J	C200033260200	1
R825	CARBON FILM 10 Ohm 15W J	C00001006P520	1
R826	CARBON FILM 220 Ohm 1/4W J	C000022163520	1
R830	CHIP THICK 33 Kohm 1/10W J	C200033360200	1
R832	CHIP THICK 33 Kohm 1/10W J	C200033360200	1
R834/R835	CHIP THICK 180 Kohm 1/10W J	C200018460200	2
R838	CHIP THICK 100 Kohm 1/10W J	C200010460200	1
R841	CARBON FILM 560 Ohm 1/5W J	C00005616P520	1
R842	CHIP THICK 10 Kohm 1/10W J	C200010360200	1
R843	CHIP THICK 22 Kohm 1/10W J	C200022360200	1
R844	CHIP THICK 12 Kohm 1/10W J	C200012360200	1
R846	CHIP THICK 330 Ohm 1/10W J	C200033160200	1
R847	CHIP THICK 12 Kohm 1/10W J	C200012360200	1
R848	CHIP THICK 120 Kohm 1/10W J	C200012460200	1
R849	CHIP THICK 1.2 Kohm 1/10W J	C200012260200	1
R850	CHIP THICK 33 Kohm 1/10W J	C200033360200	1
R851	CHIP THICK 680 Ohm 1/10W J	C200068160200	1
R852-R855	CARBON FILM 10 Kohm 1/4W J	C000010363520	14
R856/R857	CHIP THICK 3.6 Kohm 1/10W J	C200036260200	2
R858	CHIP THICK 2.2 Kohm 1/10W J	C200022260200	1
R859	CHIP THICK 3.6 Kohm 1/10W J	C200036260200	1
R860/R861	CHIP THICK 18 Kohm 1/10W J	C200018360200	2
R862	CHIP THICK 3.6 Kohm 1/10W J	C200036260200	1
R864	CHIP THICK 100 Ohm 1/10W J	C200010160200	1
R868/R869	CHIP THICK 18 Kohm 1/10W J	C200018360200	2
R870/R871	CHIP THICK 1 Kohm 1/10W J	C200010260200	2
R872/R873	CHIP THICK 1.3 Kohm 1/10W J	C200013260200	2
R874	CHIP THICK 12 Kohm 1/10W J	C200012360200	1
R875	CHIP THICK 68 Kohm 1/10W J	C200068360200	1
R876/R877	CHIP THICK 2.7 Kohm 1/10W J	C200027260200	2
R878/R879	CARBON FILM 330 Ohm 1/5W J	C00003316P520	2
R880	CARBON FILM 4.7 Kohm 1/4W J	C000047263520	1
R881	CHIP THICK 2.2 Kohm 1/10W J	C200022260200	1
R882	CHIP THICK 8.2 Kohm 1/10W J	C200082260200	1
R883	CHIP THICK 100 Kohm 1/10W J	C200010460200	1
R888	CARBON FILM 100 Ohm 1/5W J	C00001016P520	1
R889	CHIP THICK 27 Kohm 1/10W J	C200027360200	1
R891	CHIP THICK 4.7 Kohm 1/10W J	C200047260200	1
R892/R893	R.M.OXIDE FILM 10 Ohm 1W J	C040010065050	2
R894	CHIP THICK 1 Mohm 1/10W J	C200010560200	1
R900	CHIP THICK 10 Kohm 1/10W J	C200010360200	1
RY501	RELAY (DG12D2-OS)	G680000130010	1

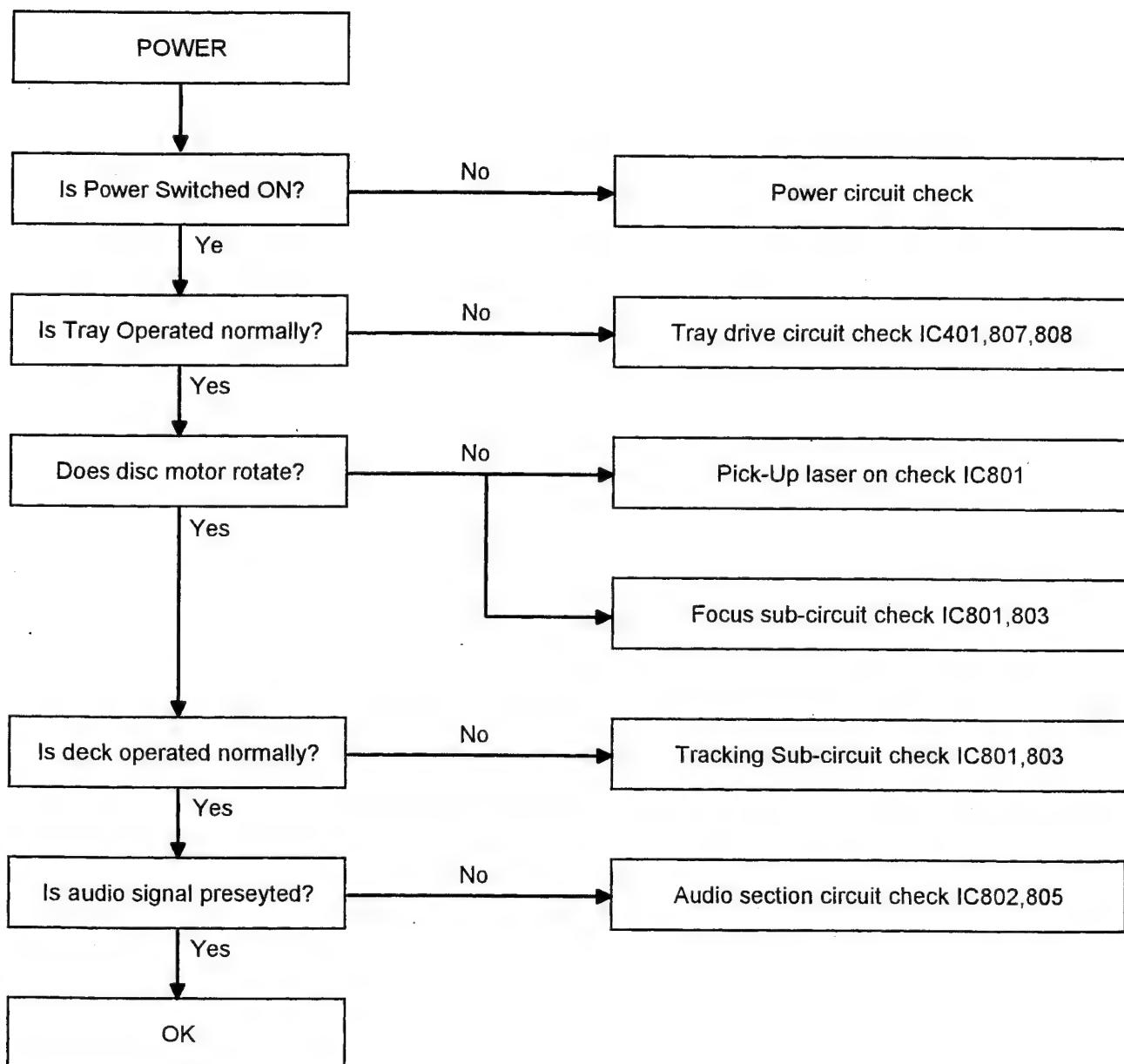
REF NO.	ITEM	PARTS NO.	Q'TY
SW401-SW409	SW,TACT	G180215050010	10
SW421	SW,TACT	G180215050010	1
SW422-SW428	SW,TACT	G180215050010	7
T601	COIL,IF MW (PCFMA-182)	D950018200000	1
T610	RF,TRANS MW OSC (RBW07V-K5012)	D940501200010	1
T621	COIL,TRAP (105KHz)	D302010111010	1
T622	COIL,TRAP (105KHz)	D302010111010	1
TP601	TUNER,FM (FE340-A01)	E900000230010	1
VR401	SW,ROTARY (EVQ-VEFFK112B)	G120121100010	1
VR620	CERMET MOLD (10KB, 0.1W-50V)	C544103015130	1
W401	RING,TER WIRE (BK 170MM)	8410000460000	1
X401	CRYSTAL (32.768KHz, CFS308-CL;12.5P)	E80032R768050	1
X402	RESONATOR,CERAMIC (CSA6.00MMGU-2PIN)	E8306R0000010	1
X631	CRYSTAL (7.2MHz, 20PPM-CL;20PF)	E8007R2000010	1
X801	CRYSTAL (16.9344MHz, HC49U-CL;30PF)	E80016R934010	1
ZD401	ZENER, 5.1V (0.5W/5MA)	K06005R144520	1
ZD501	ZENER, 33V (0.5W/5MA)	K06033R044520	1
ZD502	ZENER, 8.2V (0.5W/5MA)	K06008R244520	1
ZD801	ZENER, 8.2V (0.5W/5MA)	K06008R244520	1
ZD802	ZENER, 6.2V (0.5W/20MA)	K06006R214520	1
ZD804	ZENER, 6.8V (0.5W/5MA)	K06006R844520	1
F501	FUSE (250V-S0.63A)	G650631251020	1
<b>MICELLNEOUS</b>			
	INSULATION (LAC/PAD)	1240020059010	1
	TERMINAL (PBST EH 8*10)	3790000120000	1
	FASTENER (2MM*100MM)	4420000190000	1
	PLATE (SPTE 0.3T/EARTH)	4470005246020	1
	FUSE CLIP (HOLDER)	G645000010020	1

**# ACDC500/500G IS CONSISTED WITH 2 PCB'S. #**

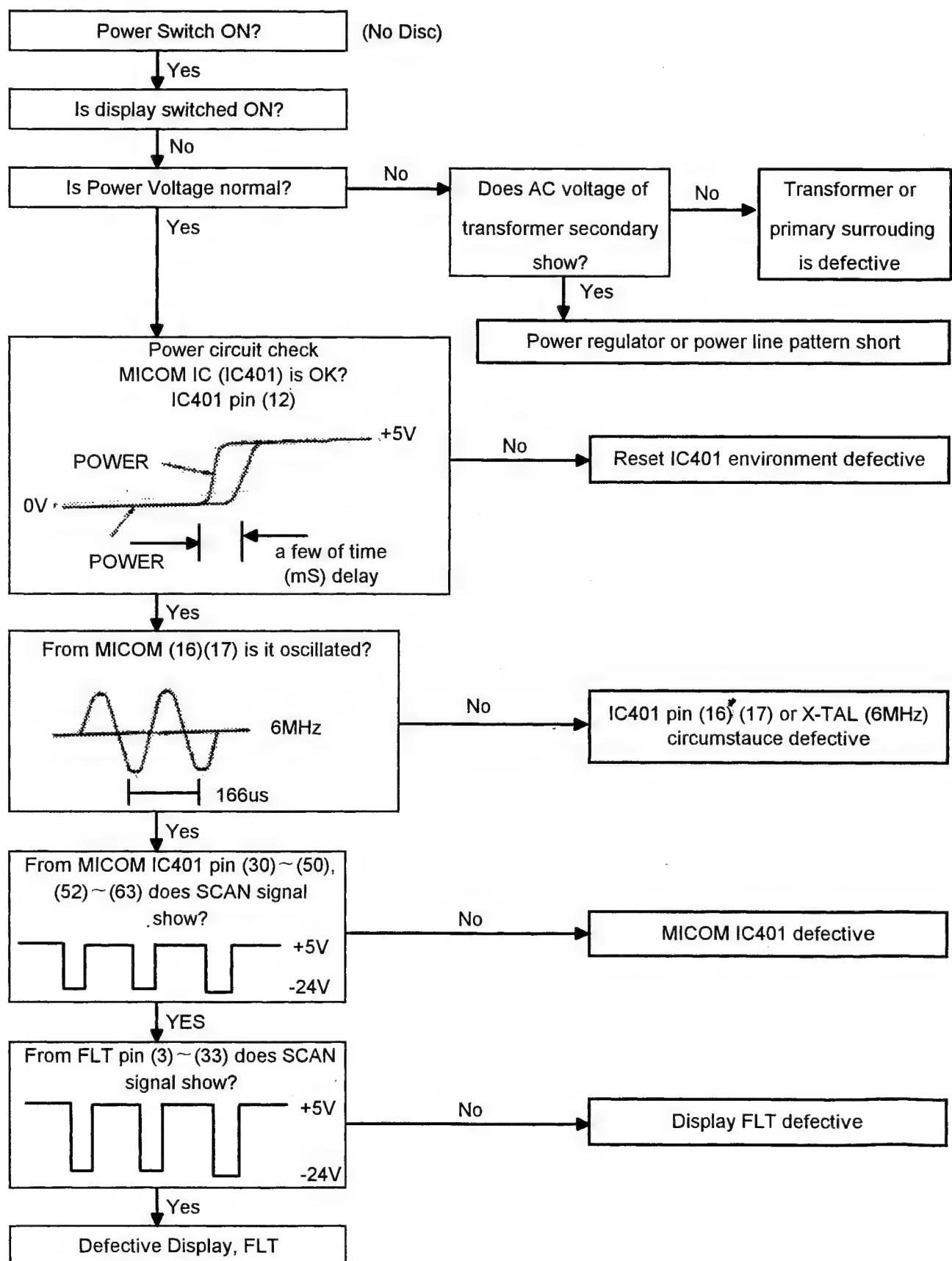
**\* ASS'Y PCB (AMP+CD+TUN+POWER) PART NO : 7028021110060**

**\* ASS'Y PCB (FRONT+HEAD PHONE) PART NO : 7028021120010**

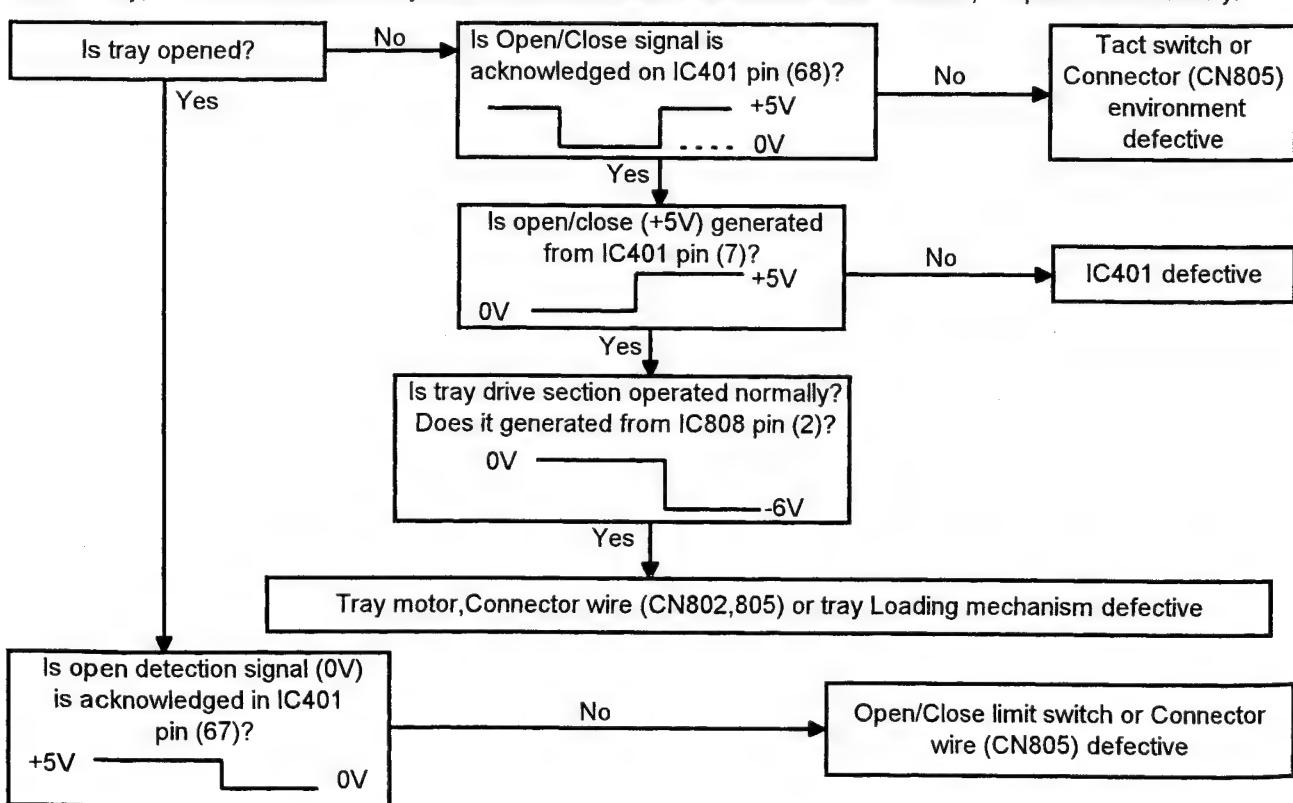
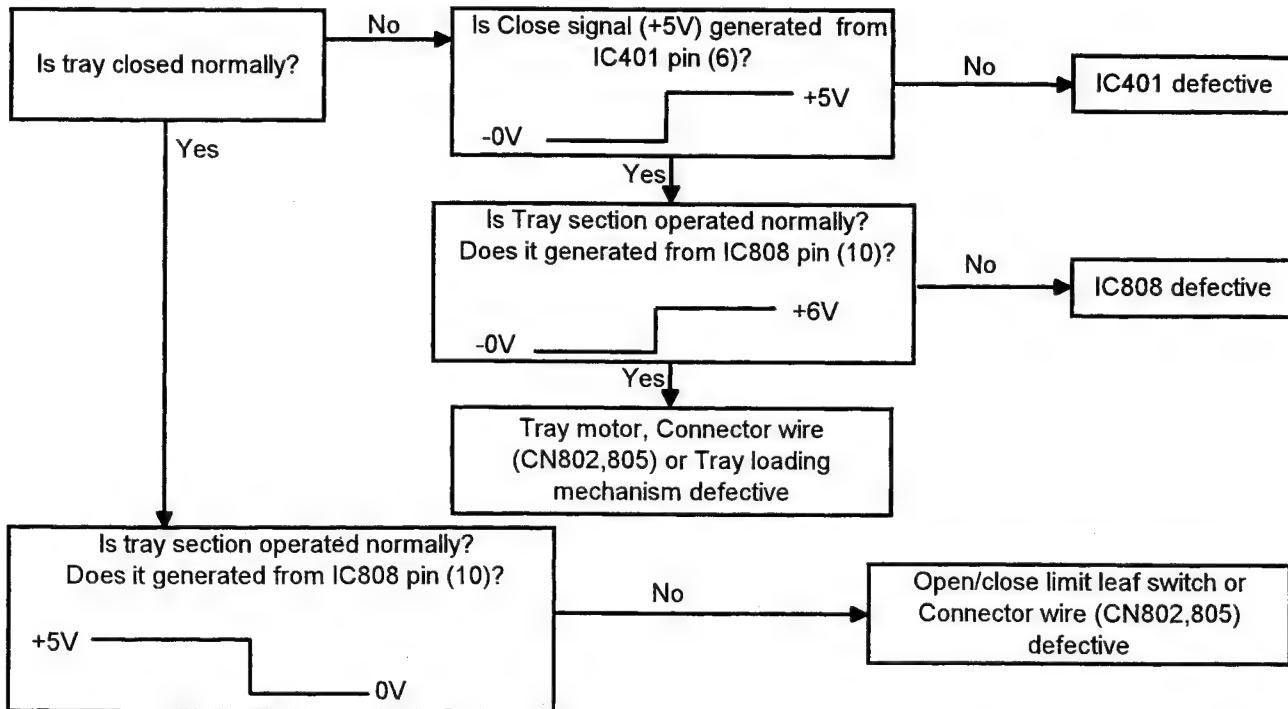
## TROUBLESHOOTING



## 1. Display Check



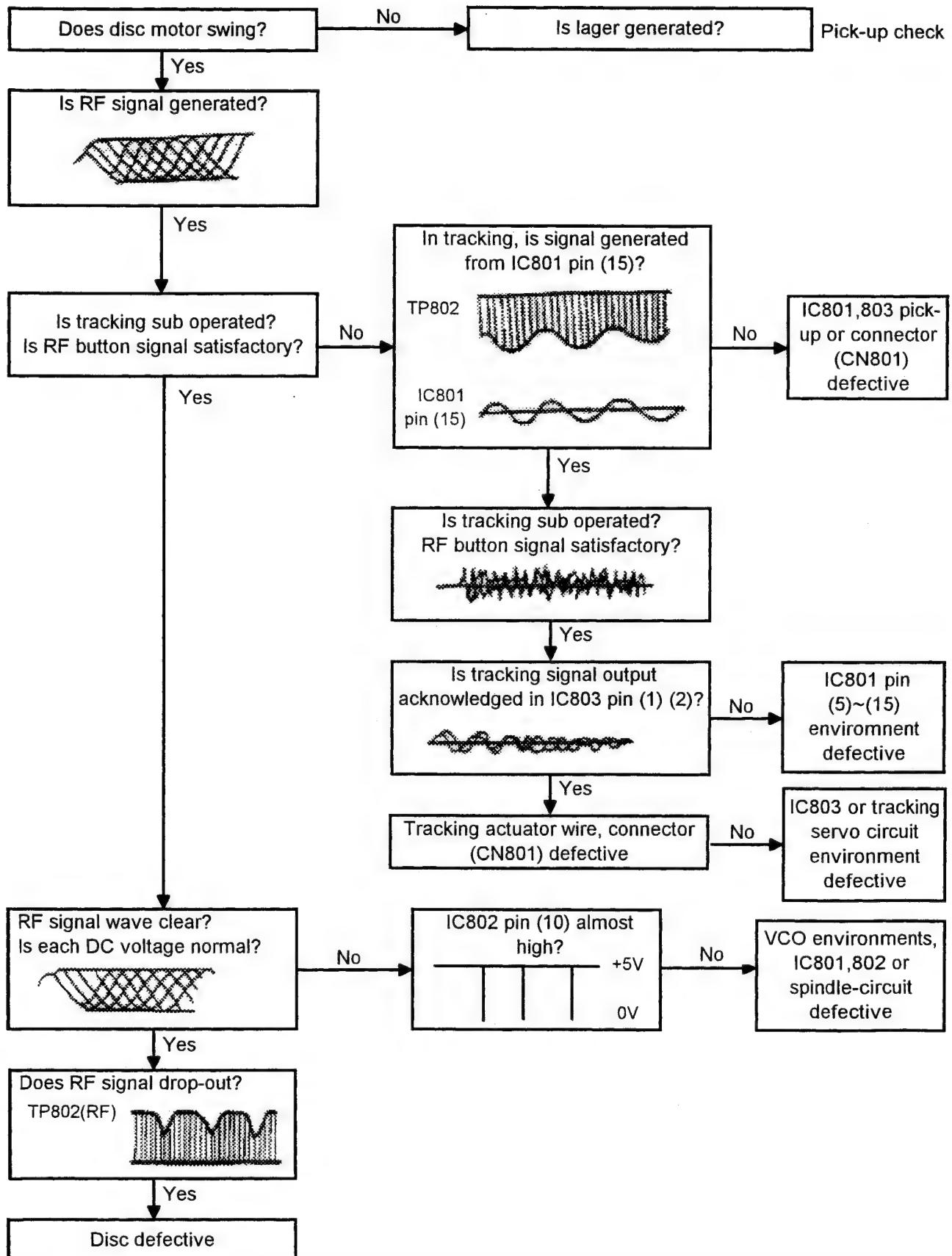
## 2. Tray check



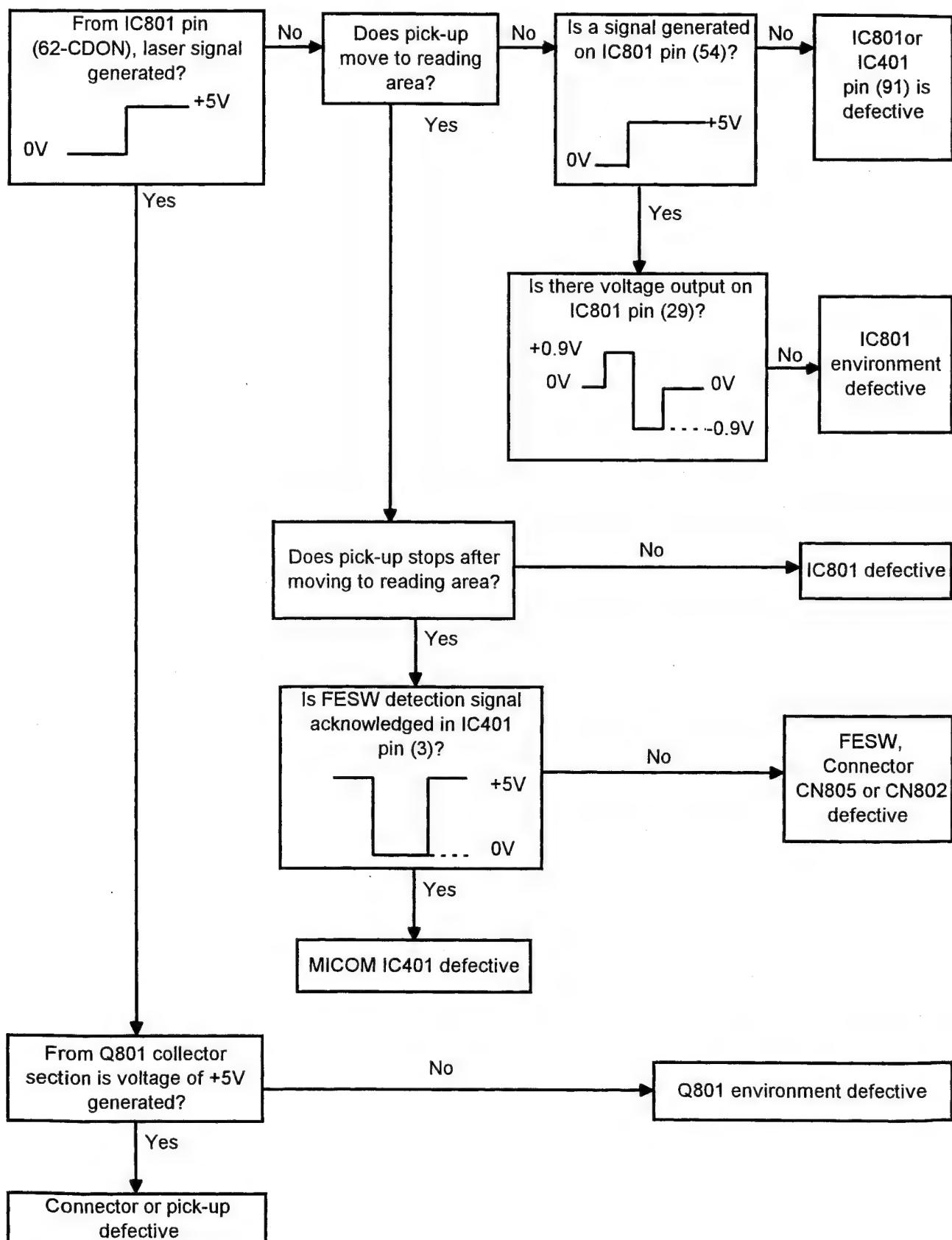
If tray open leaf switch is not operated within 9 seconds after pushing open button, tray is closed again.

And it is opened after tray open & close repeat 2 times every 9 second.

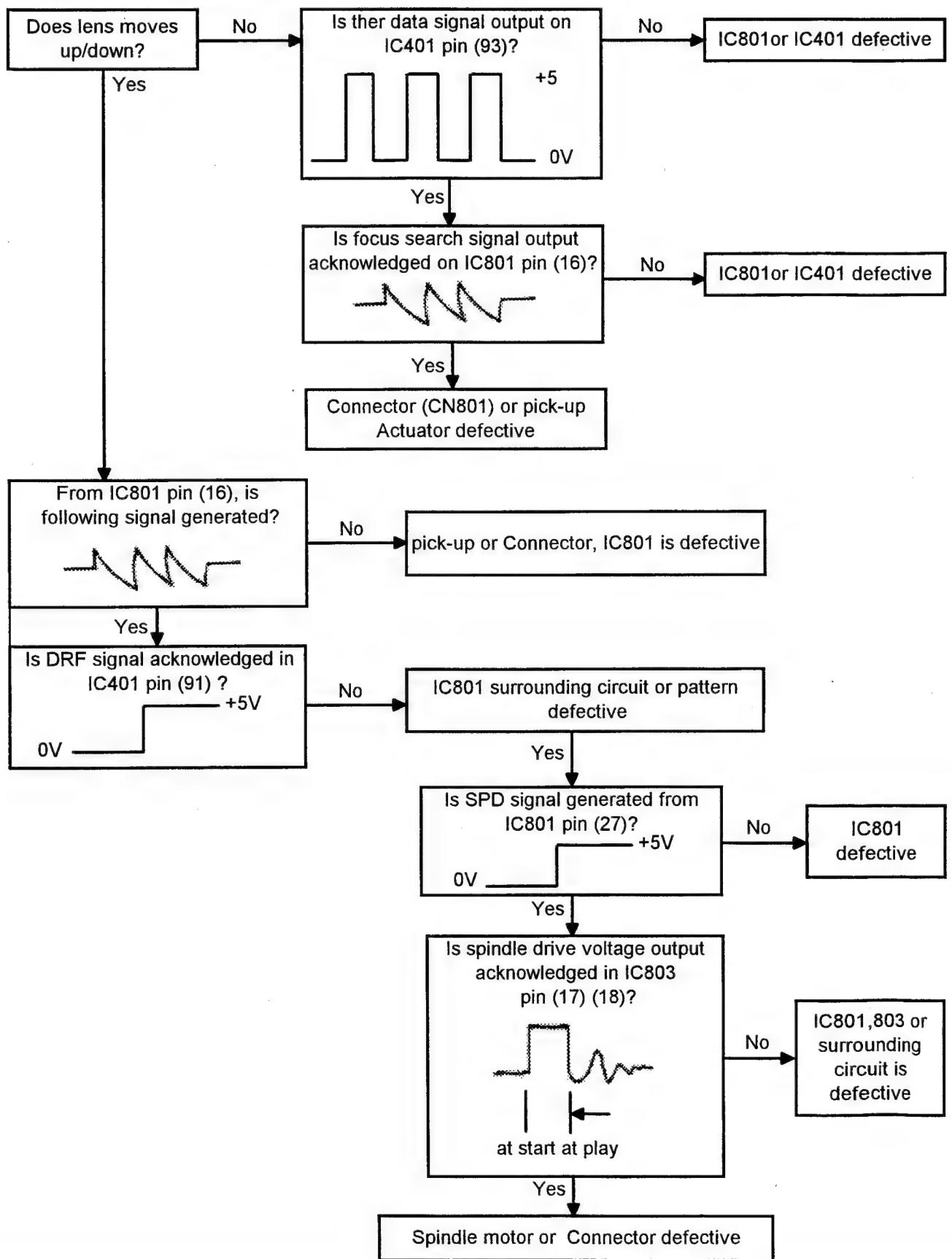
### 3. Disc Check



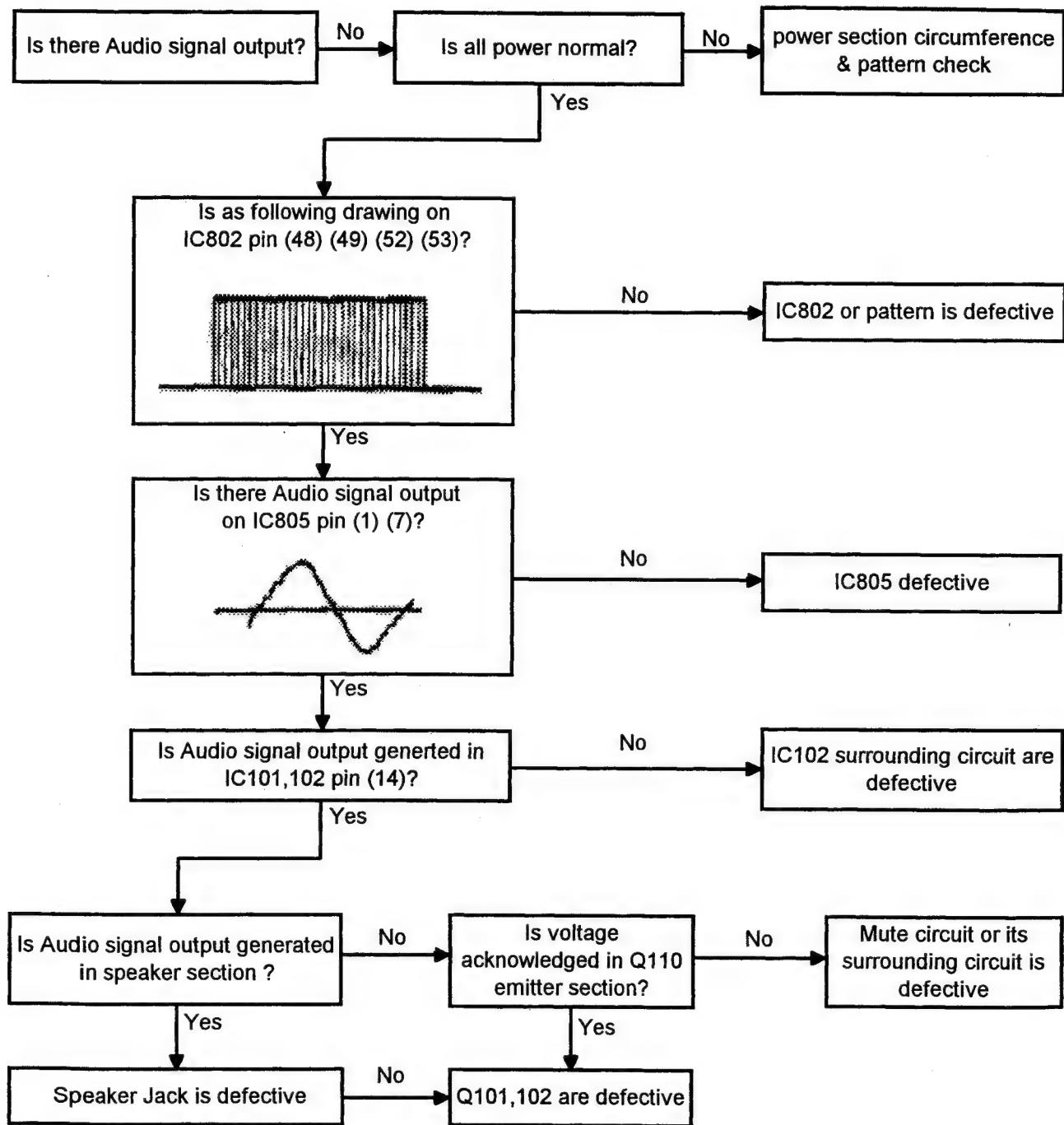
**(A) When Laser Diode does not emit light**



**(B) In case Laser Diode emit light**

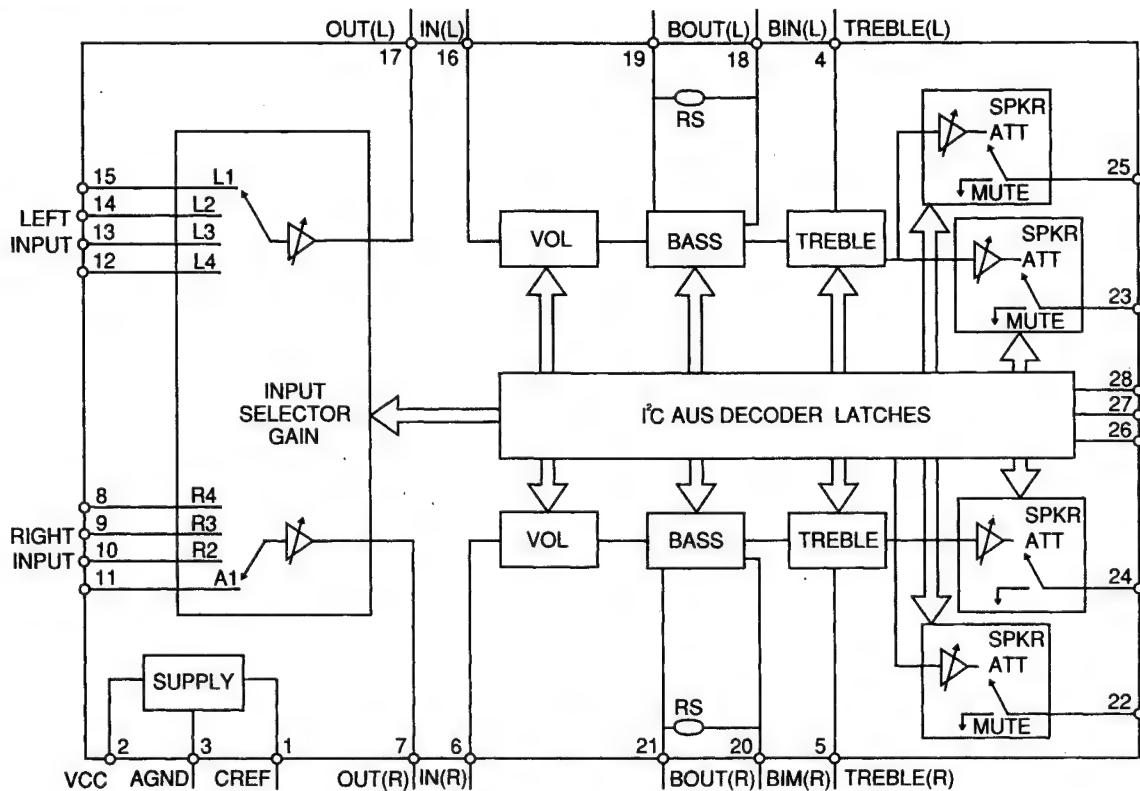


#### 4. Audio circuit repair

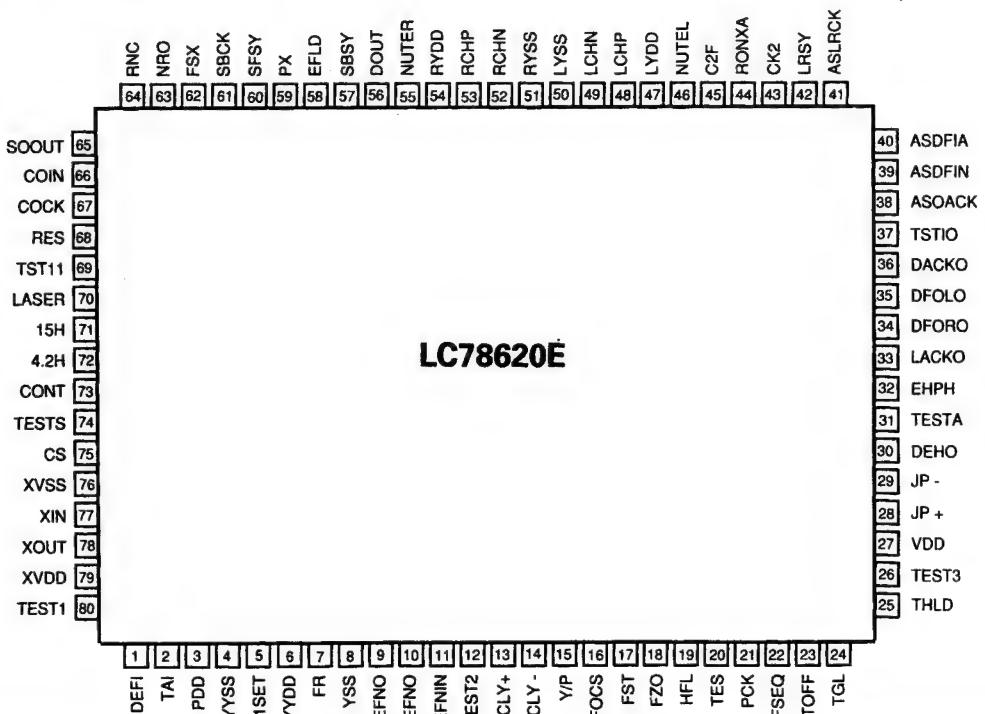


# IC'S FUNCTIONAL BLOCK DIAGRAM

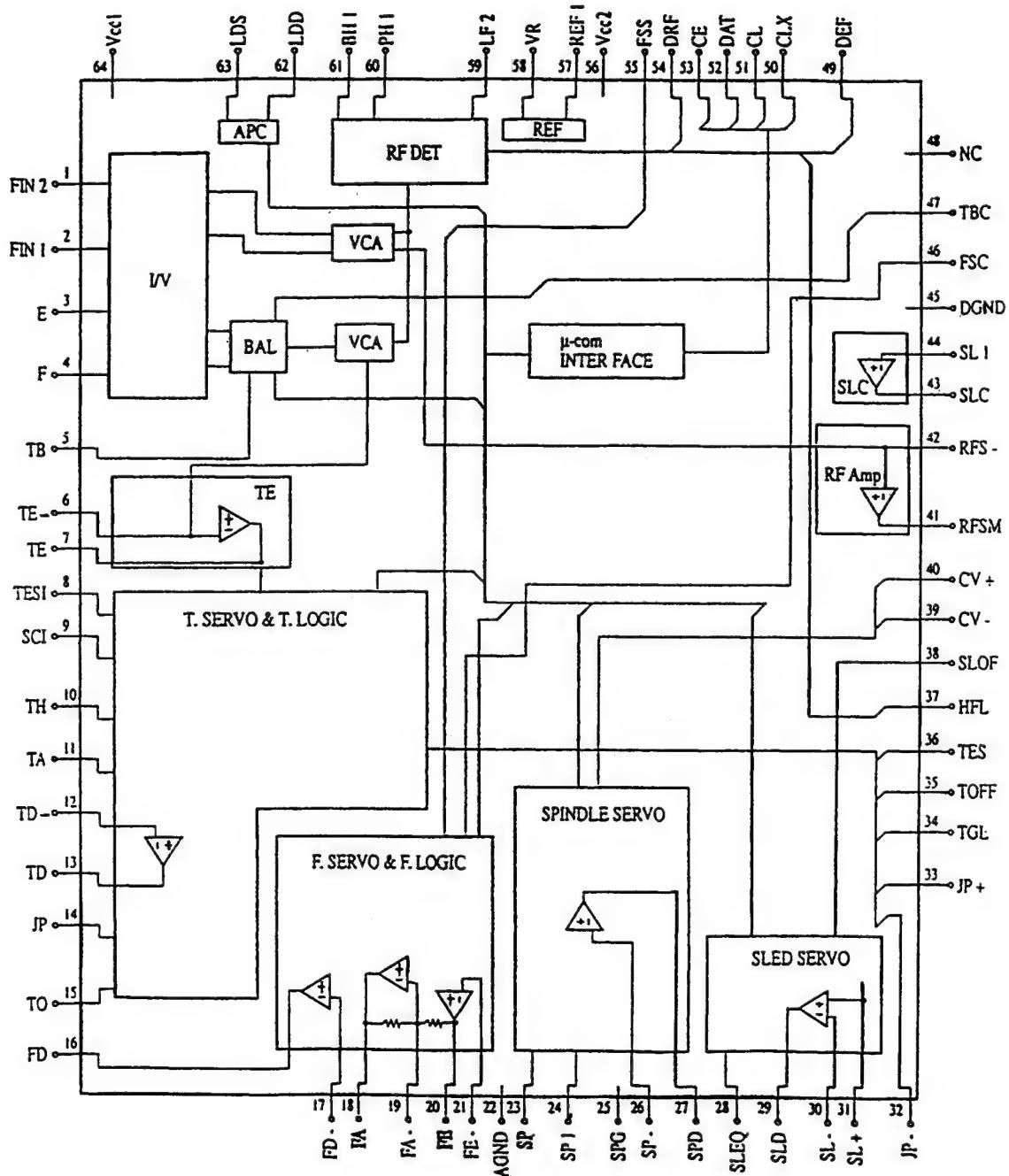
## TDA7318 : IC301



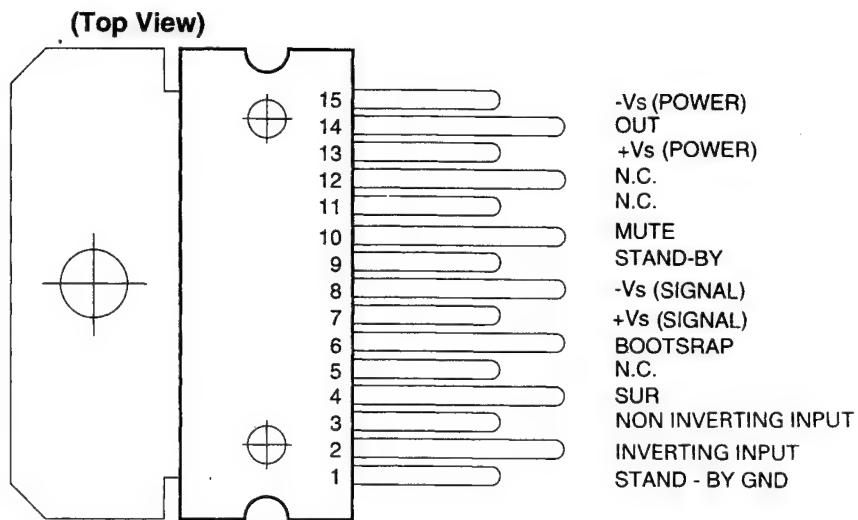
## LC78621E : IC802



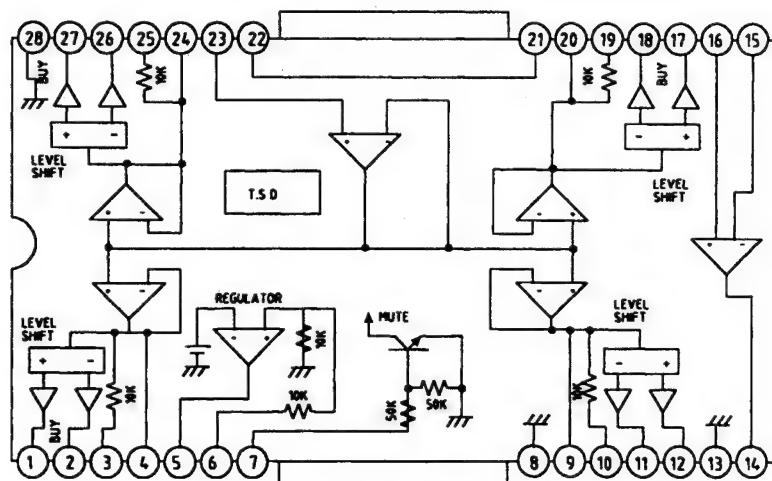
# LA9240M : IC801



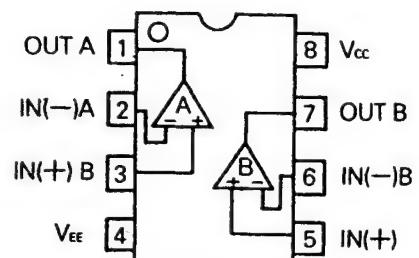
## TDA7296 : IC101, IC102



## KA9258 : IC803



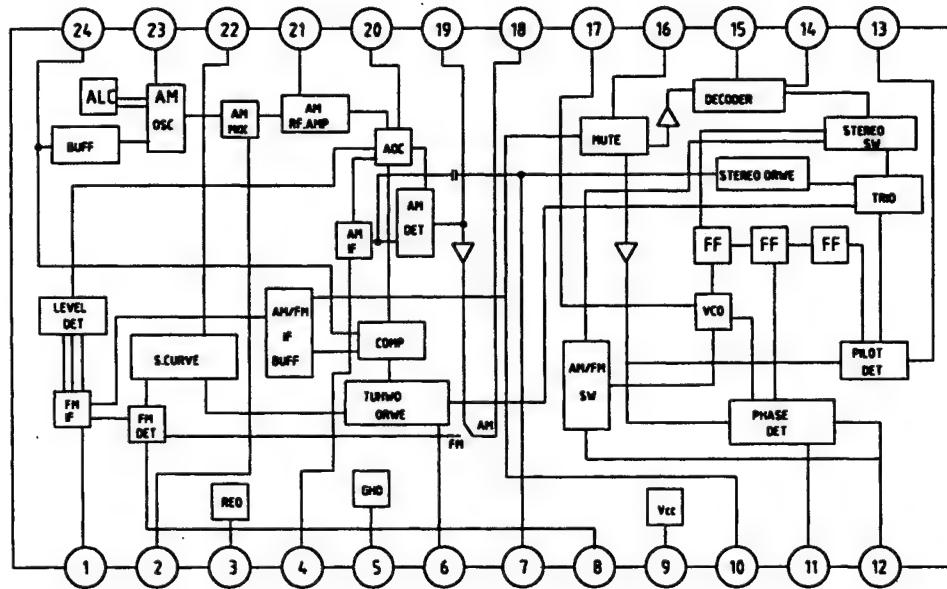
## KIA4558F : IC002, IC302, IC360, IC701, IC805



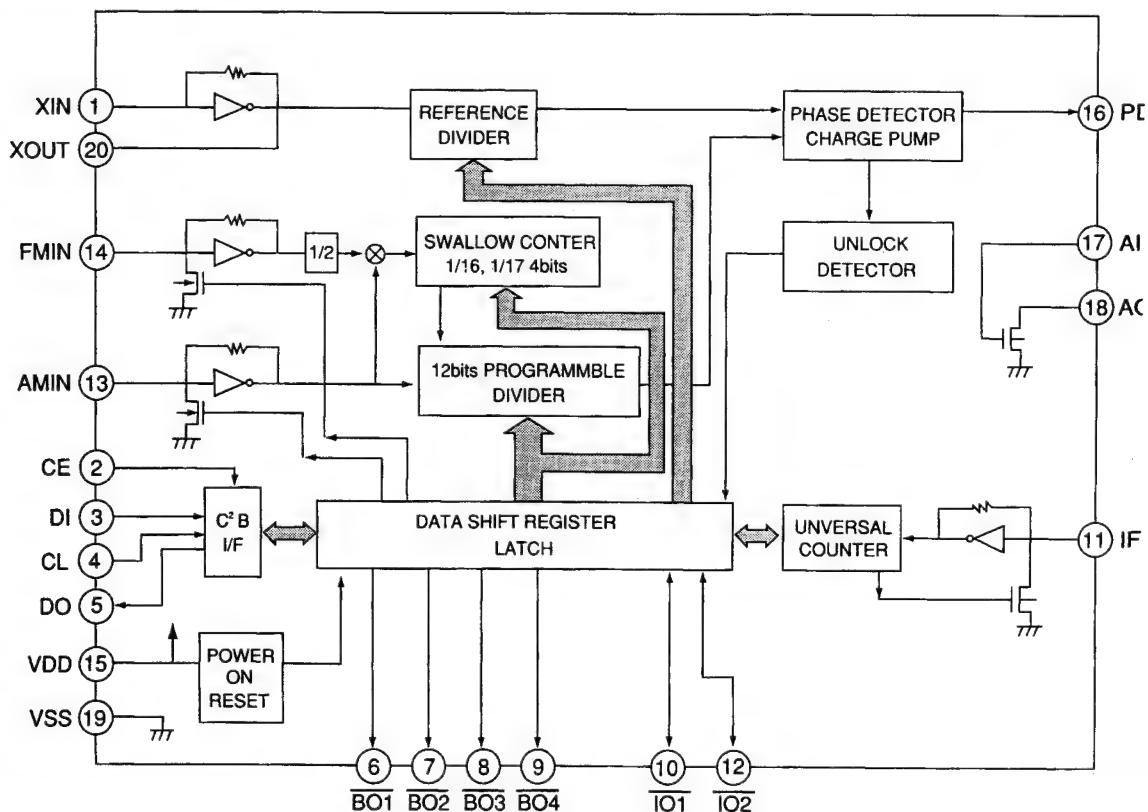
Pin No.	Symbol	I/O	Description
1	DO1.1	O	DRIVE OUTPUT
2	DO1.2	O	DRIVE OUTPUT
3	DI1.1	I	DRIVE INPUT
4	DI1.2	I	DRIVE INPUT
5	REG		REGULATOR
6	REO	O	REGULATOR OUTPUT
7	MUTE		MUTE
8	GND1		GROUND
9	DI2.1	I	DRIVE INPUT
10	DI2.2	I	DRIVE INPUT
11	DO2.1	O	DRIVE OUTPUT
12	DO2.2	O	DRIVE OUTPUT
13	GND2		GROUND
14	OPOUT	O	OPAMP OUTPUT

Pin No.	Symbol	I/O	Description
15	OPIN( - )	I	OPAMP OUTPUT (-)
16	OPIN( + )	I	OPAMP INPUT (+)
17	DO3.1	O	DRIVE OUTPUT
18	DO3.2	O	DRIVE OUTPUT
19	DI3.1	I	DRIVE INPUT
20	DI3.2	I	DRIVE INPUT
21	VCC1		SUPPLY VOLTAGE
22	VCC2		SUPPLY VOLTAGE
23	VREF		2.5V BIAS VOLTAGE
24	DI4.1	I	DRIVE INPUT
25	DI4.2	I	DRIVE INPUT
26	DO4.1	O	DRIVE OUTPUT
27	DO4.2	O	DRIVE OUTPUT
28	GND3		GROUND

LA1832 : IC601

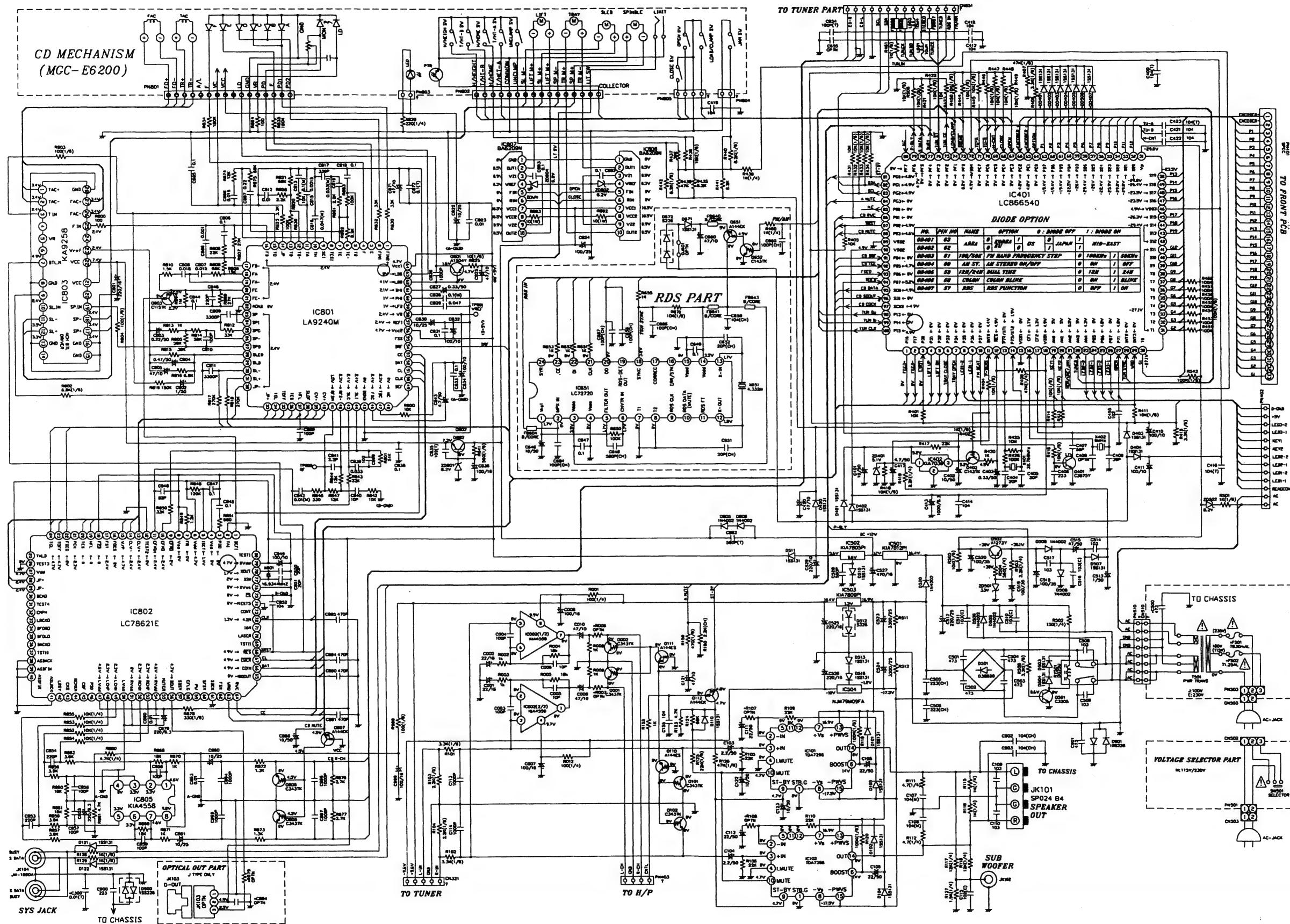


LC72131 : IC630



# SCHEMATIC DIAGRAM (I)

Model No. : ACDC-500/500G



## OPTION TABLE

**TUNER/EQ.  
PCB**

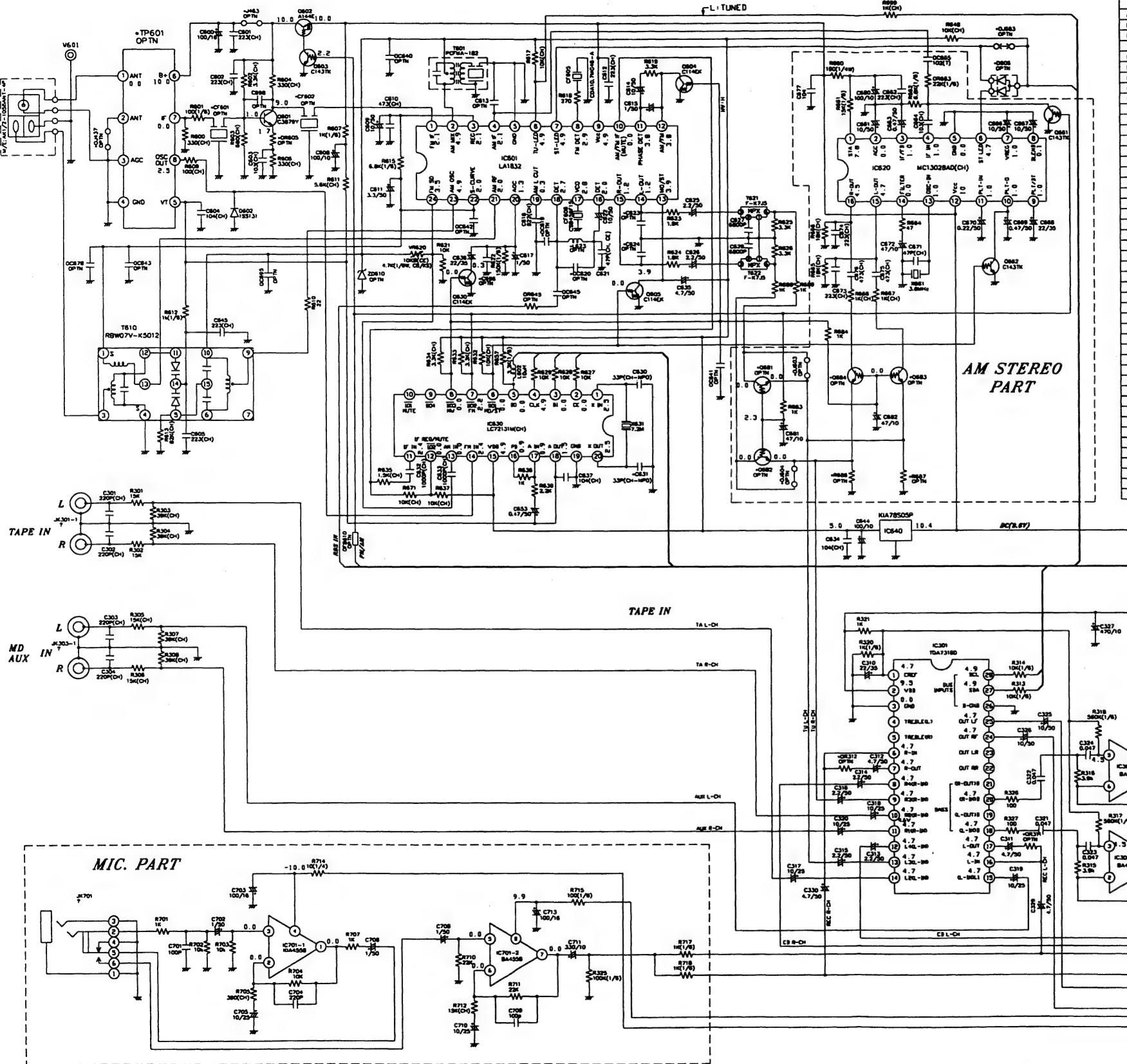
	JAPAN	ASIA	KOREA	EUROPE	REMARK
TP601	FE340-J04	FE340-A01	FE340-A01	FE417-G02	
J463	150 OHM	BEAD CORE	BEAD CORE	JUMPER	
CF601/602	10.7MA	10.7MA	10.7MA	10.7MJA	
L623	JUMPER	JUMPER	JUMPER	A1B7LY	
R605	33	33	33	10	
C623/624	273	273	273	223	
C619	1000P	820P	820P	100P	
C613	223	JUMPER	JUMPER	JUMPER	
C620	DEL	DEL	DEL	100P	
C612	DEL	223	223	223	
R686/687	47K	DEL	DEL	DEL	
DJ603/604	DEL	JUMPER	JUMPER	JUMPER	
Q681/682	C144TK	DEL	DEL	DEL	
Q683/684	C144TK	DEL	DEL	DEL	
D606	KDS181	DEL	DEL	DEL	
DJ683	DEL	JUMPER	JUMPER	JUMPER	
DC640/641	104	DEL	DEL	DEL	
DC642/643	104	DEL	DEL	DEL	
C645	104	DEL	DEL	DEL	
C655/656	DEL	DEL	DEL	100P	
C660/684	DEL	DEL	DEL	100P	
C686/687	DEL	DEL	DEL	100P	
C659	DEL	DEL	DEL	104	
DC638/639	DEL	103	103	103	
R460	DEL	DEL	DEL	4.7K	
DF8610	DEL	DEL	DEL	BEAD CORE	
DR645	DEL	DEL	DEL	1K	
DC645	DEL	DEL	DEL	330P	
C696	102	DEL	DEL	DEL	
DC695	DEL	473	473	DEL	
R311	JUMPER	JUMPER	1K	JUMPER	
R355/356	1K	1K	47K	1K	
DJ434	DEL	JUMPER	JUMPER	DEL	
ZD610	DEL	DEL	DEL	25.1V	
R006/007	150	150	68	150	
R312	JUMPER	JUMPER	1K	JUMPER	
R375/376	1K	1K	47K	1K	
MIC. PART	DEL	DEL	0	DEL	
AM STEREO PART	0	DEL	DEL	DEL	

**AMP/CD/MICOM  
PCB**

	JAPAN	ASIA	KOREA	EUROPE	REMARK
DD401	DEL	ISS131	DEL	ISS131	
DD402	ISS131	ISS131	DEL	ISS131	
DD403	DEL	DEL	DEL	ISS131	
DD404	ISS131	ISS131	ISS131	DEL	
DD405	DEL	ISS131	DEL	ISS131	
DD406	DEL	DEL	ISS131	DEL	
DD407	DEL	DEL	DEL	ISS131	
R107/108	680	680	330	680	
JK103	GPIF32T	DEL	DEL	DEL	
C884	104(C)	DEL	DEL	DEL	
R879	330(1/6)	DEL	DEL	DEL	
DJ442/443	JUMPER	DEL	DEL	DEL	
J444	JUMPER	DEL	DEL	DEL	
DJ450	DEL	JUMPER	JUMPER	JUMPER	
J443	DEL	JUMPER	JUMPER	JUMPER	
DJ448/449	DEL	JUMPER	JUMPER	JUMPER	
DJ437	DEL	DEL	DEL	JUMPER	
FB604	DEL	DEL	DEL	BEAD CORE	
C654	DEL	DEL	DEL	100P	
W601	DEL	DEL	DEL	LUG WIRE	
RDS PART	DEL	DEL	DEL	0	

## SCHEMATIC DIAGRAM (II)

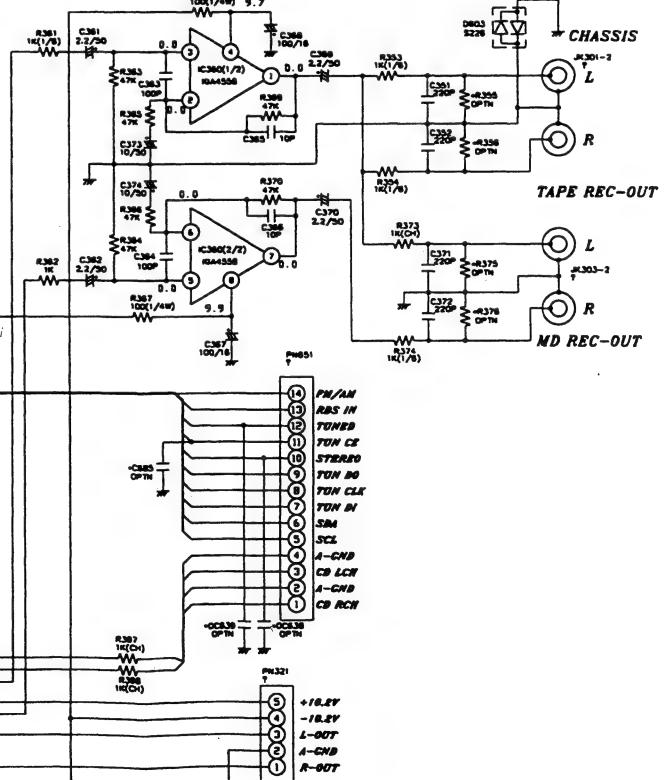
Model No. : ACDC-500/500G



### OPTION TABLE

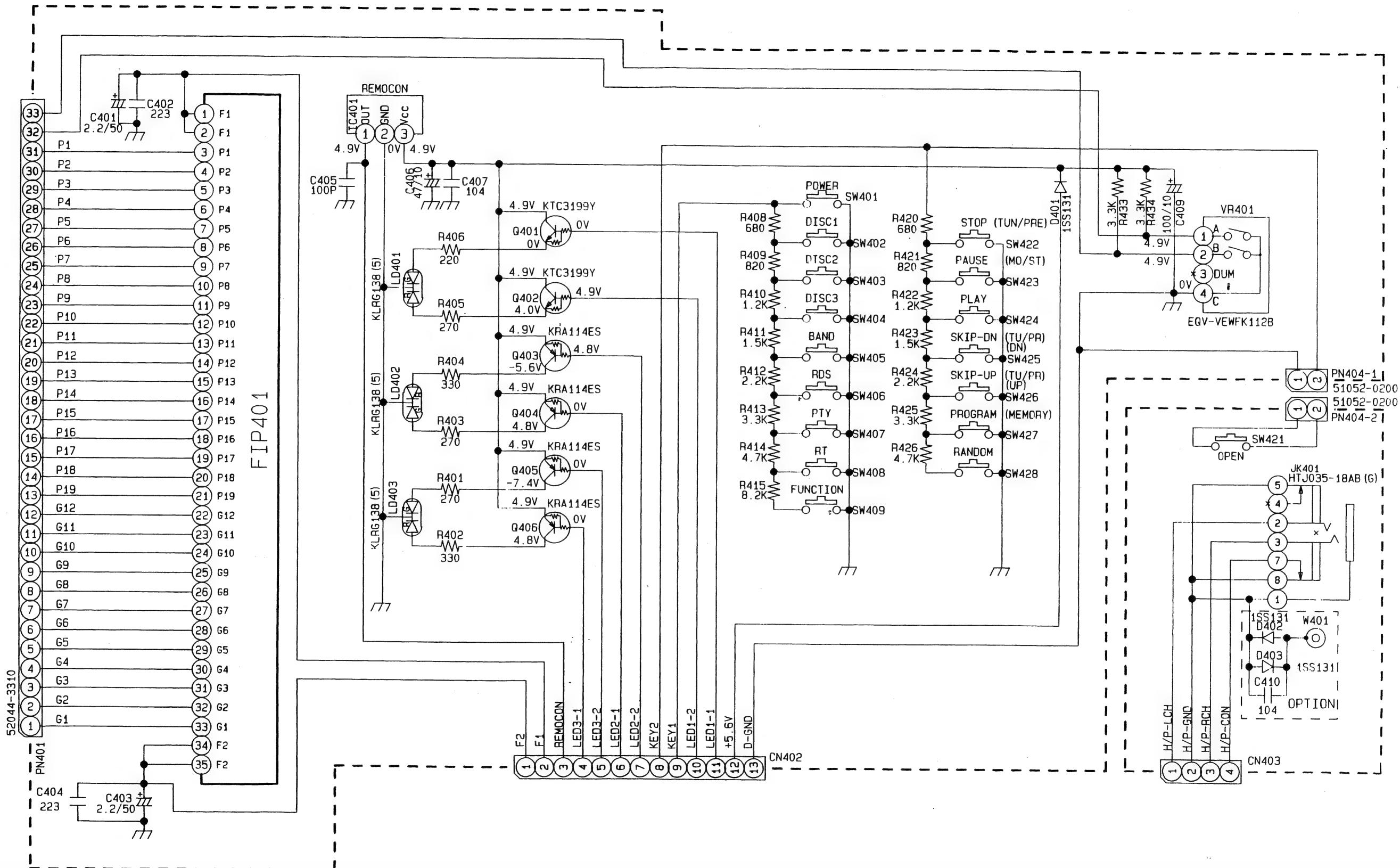
	KOREA	EUROPE	JAPAN	ASIA	USA	REMARK
AM STEREO PART	X	X	D	X	X	
MIC. PART	D	X	X	X	X	
C625/645/DC628	X	100P(C)	X	X	X	
TP601	FE340-A01	FE417-G02	FE340-J04	FE340-A01	FE340-A01	
CF601/602	10.7M $\Omega$	10.7M $\Omega$	10.7M $\Omega$	10.7M $\Omega$	10.7M $\Omega$	
L623	JUMPER	A187LY	JUMPER	JUMPER	JUMPER	
DC619	820P(C)	390P(C)	182(C)	820P(C)	273(C)	
DC623/624	273(C)	223(C)	273(C)	273(C)	273(C)	
0661/682/683/684	X	X	C144T	X	X	
J463	JUMPER	150(1/6)	HEAD CORE	HEAD CORE	HEAD CORE	
R468	X	4.7K(1/6)	X	X	X	
DC678	X	X	104(C)	X	X	
R606	X	X	KD5181ST	X	X	
DR311	1K(1/6)	JUMPER	JUMPER	JUMPER	JUMPER	
DR312	1K(C)	JUMPER	JUMPER	JUMPER	JUMPER	
R355/356/376	47K(1/6)	1K(1/6)	1K(1/6)	1K(1/6)	1K(1/6)	
R375	47K(C)	1K(C)	1K(C)	1K(C)	1K(C)	
R6105	33(C)	1K(C)	33(C)	33(C)	33(C)	
DR645	X	1K(1/6)	X	X	X	
R663/684	X	X	1K(C)	X	X	
DR810	X	X	HEAD CORE	X	X	
CA681/682	X	X	47/18	X	X	
CA554/DC645	X	100P(T)/320P(T)	X	X	X	
CA450/448/449/451/452	JUMPER	X	JUMPER	JUMPER	JUMPER	
DC638/639	103(C)	103(C)	X	103(C)	103(C)	
C696	X	X	102(T)	X	X	
DC640/641/642/643	X	X	104(C)	X	X	
C695	473(T)	X	X	473(T)	473(T)	
ZD610	X	Z-1	X	X	X	
V350/601	X	LUG WIRE	X	X	X	
R107/108	330(1/6)	680(1/6)	680(1/6)	680(1/6)	680(1/6)	
R006/007	68	150	150	150	150	
OPTICAL DUT PART	X	X	D	X	X	
F501	630mA	630mA	X	630mA	X	
F502	X	X	1.25A	1.25A	1.25A	
VOLTAGE SELECTOR PART	X	X	X	D	X	
C500	X	103(T)	X	X	X	
C500	X	473(T)	X	X	X	
C613	JUMPER	JUMPER	223(C)	JUMPER	JUMPER	
0663/604/683	JUMPER	JUMPER	X	JUMPER	JUMPER	
C408	33P(C)	39P(C)	39P(C)	33P(C)	33P(C)	
C598	X	X	10P(C)	X	X	
R696/697	X	X	47K(C)	X	X	
DR337	X	X	JUMPER	X	X	
DR442/443/444	X	X	JUMPER	X	X	
J432/469/0,429	JUMPER	JUMPER	X	JUMPER	JUMPER	
DR34	JUMPER	X	X	JUMPER	JUMPER	

AMP/CD/MIC  
TUNER/EQ.  
PART



# SCHEMATIC DIAGRAM (III)

Model No. : ACDC-500/500G



## ◎ DS-500 SPECIFICATIONS

### 1. GENERAL

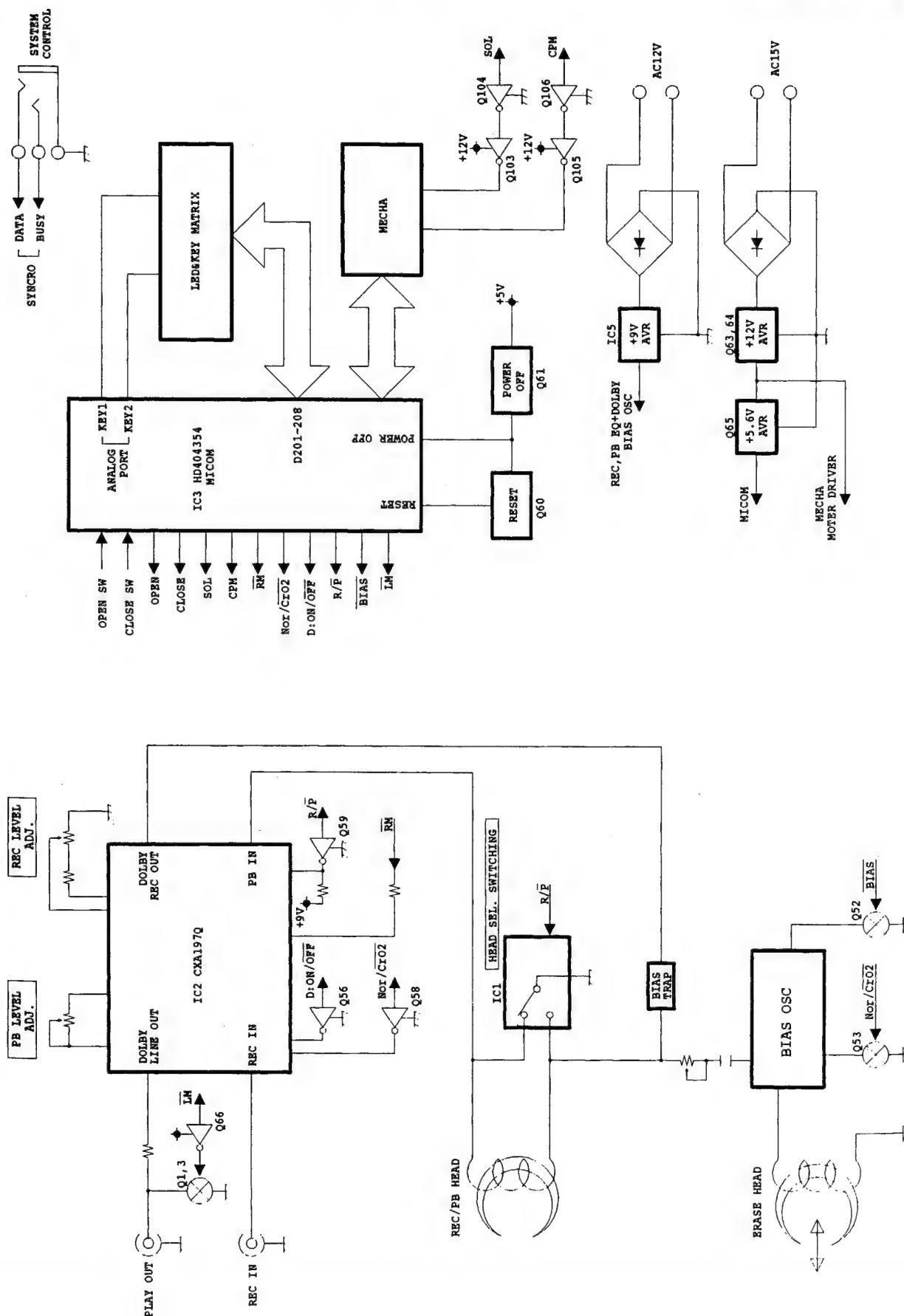
(1) POWER	-----	220V/60Hz
(2) POWER CONSUMPTION	-----	85W
(3) DIMENSION	-----	160(W)*140(H)*275(D)mm

### 2. DECK SECTION

(1) FREQUENCY RESPONSE	-----	125Hz-12.5KHz
(2) WOW FLUTTER	-----	0.2%
(3) MUTE RATIO	-----	55dB
(4) RECORD/PLAY S/N RATIO	-----	45dB
(5) FWD/REW TIME	-----	AROUND 120 SECONDS (C-60)

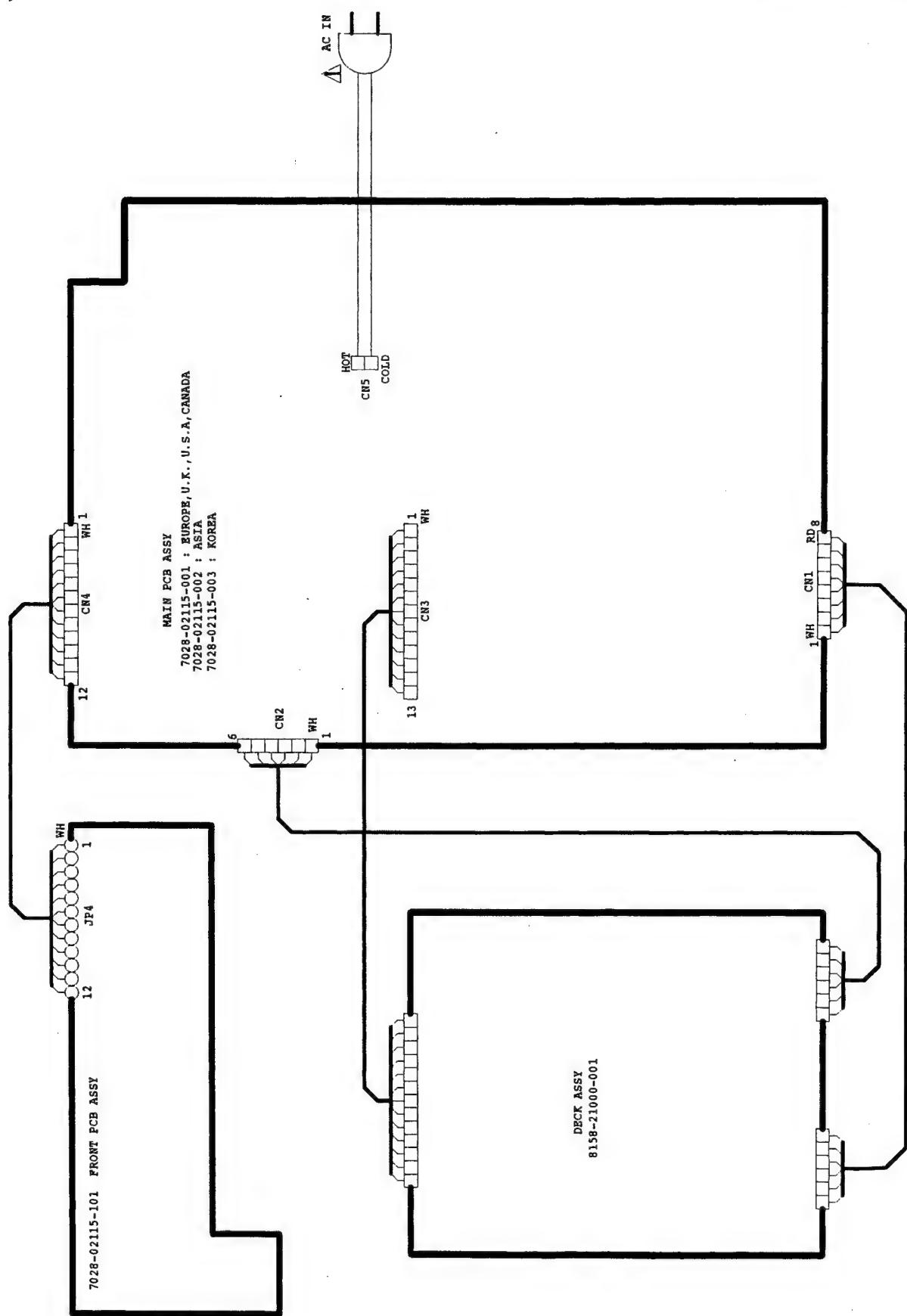
# BLOCK DIAGRAM

Model No. : DS-500



# WIRING DIAGRAM

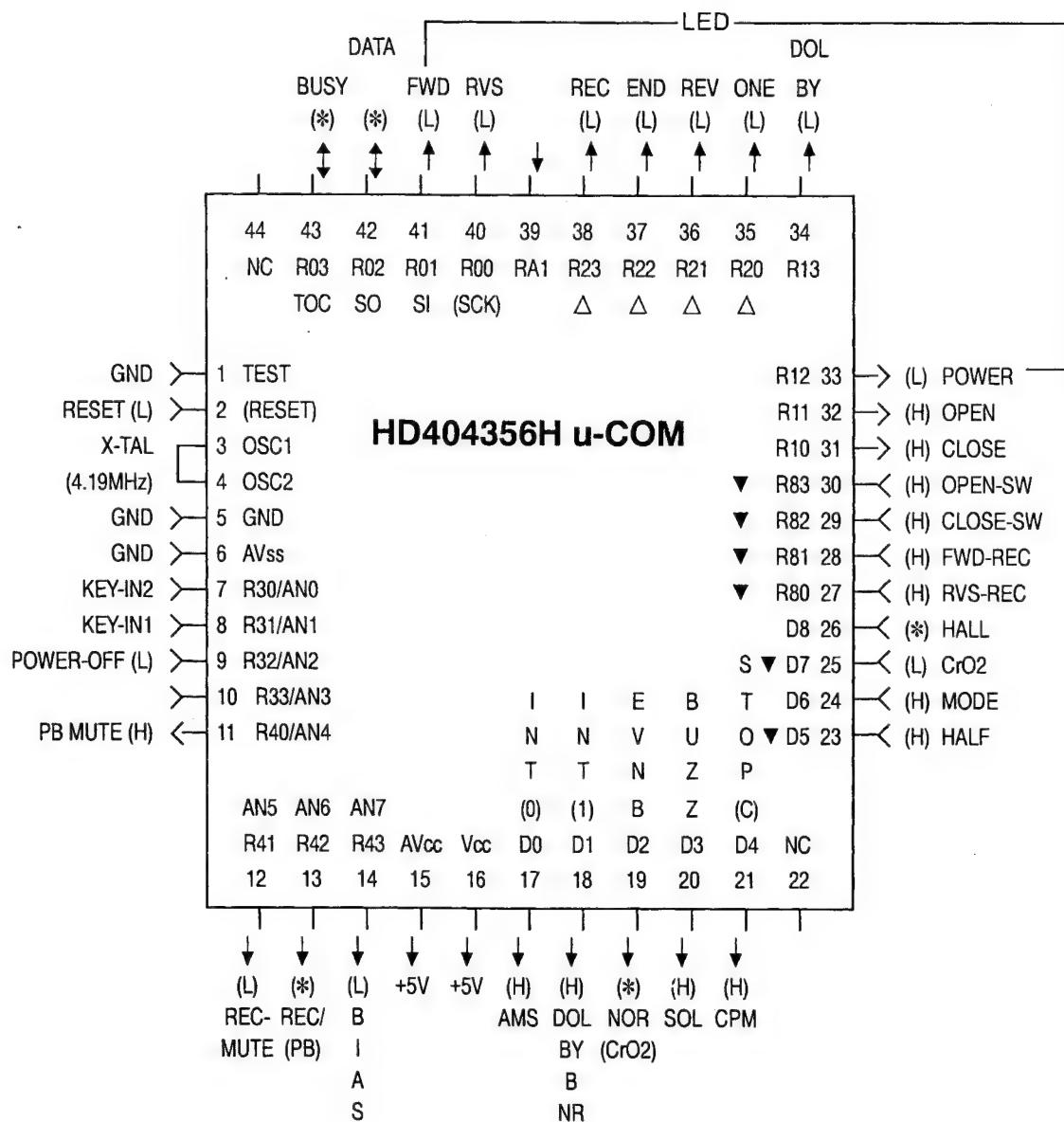
Model No. : DS-500



# CIRCUIT DESCRIPTION

IC3 : HD404356-QFP44P

## 1. Pin Connection Diagram



## 2. Pin Functions

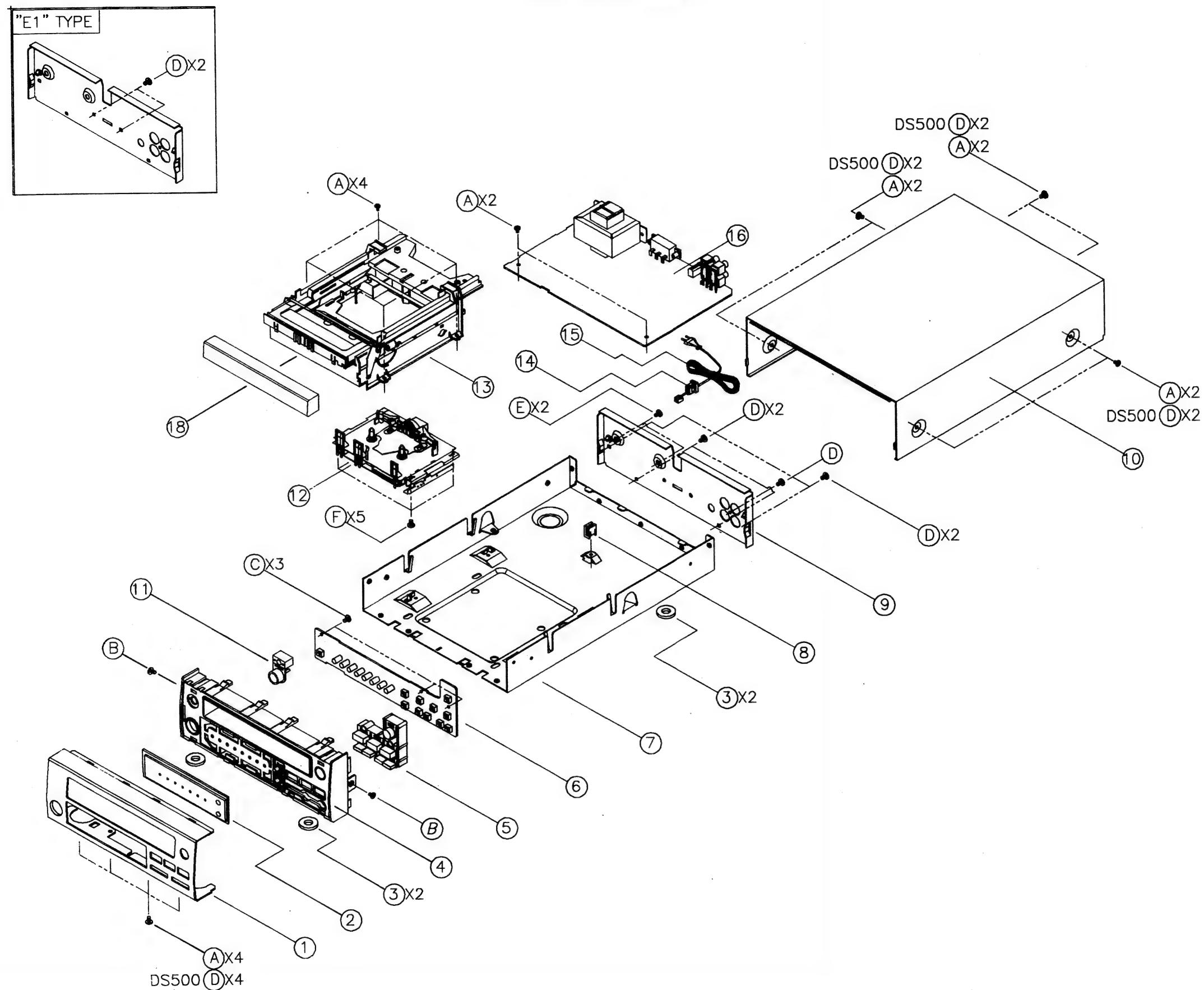
PIN NO.	NAME	I/O	ACTIVE	DESCRIPTION	REMARK
1	TEST	I	-	GND	
2	RESET	I	L	Reset signal input	
3	X-TAL	I	-	4.19MHz Ceramic resonator input	
4	X-TAL	O	-	4.19MHz Ceramic resonator output	
5	GND	I	-	GND	
6	Avss	I	-	A/D GND	
7	KEY-IN 2	I	-	Key A/D input 2	
8	KEY-IN 1	I	-	Key A/D input 1	
9	POWER OFF	I	L	Power off detection signal input	
10	R3/AN3	I	-	NC	
11	PB MUTE	O	H	Play-back mute signal output	
12	REC MUTE	O	L	Rec mute signal output	
13	REC/PB	O	H/L	REC/PB Selection signal output	
14	BIAS	O	L	REC-BIAS signal output	
15	Avcc	I	-	A/D static power supply +5V	
16	Vcc	I	-	Static power supply +5V	
17	AMS	I	H	AMS signal input	
18	DOLBY	O	H	Dolby on/off signal output	
19	NOR/CrO <sub>2</sub>	O	H/L	Tape auto selector signal output	
20	SOL	O	H	Solenoid signal output	
21	CPM	O	H	Deck motor signal output	
22	NC	-	-	NC	
23	HALF	I	H	TAPE S/W signal input	
24	MODE	I	H	Mode sw signal input	
25	CrO <sub>2</sub>	I	L	CrO <sub>2</sub> sw signal input	
26	HALL	I	*	Hall sensor signal input	
27	RVS-REC	I	H	Opposite direction REC prevention tap sw input	
28	FWD-REC	I	H	Regular direction REC prevention tab sw input	
29	CLOSE-SW	I	H	Tray close sw signal input	
30	OPEN-SW	I	H	Tray open sw signal input	
31	CLOSE	O	H	Tray motor close signal output	
32	OPEN	O	H	Tray motor open signal output	
33	POWER LED	O	L	Power LED signal output	
34	DOLBY NR LED	O	L	Dolby NR LED signal output	
35	ONE LED	O	L	Direction -> One way LED signal output	→
36	REVERSE LED	O	L	Direction -> Reverse LED signal output	↔
37	ENDLESS LED	O	L	Direction -> Endless LED signal output	○→
38	REC LED	O	L	REC/REC MUTE/REC Pause LED signal output	
39	RA1	I	-	NC	
40	RVS LED	O	L	Opposite direction Play LED signal output	
41	FWD LED	O	L	Regulator direction Play LED signal output	
42	DATA	I/O	*	System Data signal input/ output	
43	BUSY	I/O	*	System busy signal input/ output	
44	NC	-	-	NC	

## MECHANICAL PARTS LIST

REF NO.	ITEM	PARTS NO.	Q'TY
1	PANEL FRONT	3067020948020	1
2	WINDOW DISPLAY	5077020433010	1
3	CUSHION FOOT	4050020149010	1
4	PANEL FRAME	3067020951020	1
5	BUTTON FUNCTION	5097021351020	1
6	PCB FRONT ASS'Y	7028021151010	1
7	CHASSIS MAIN	3200020586010	1
8	SUPPORTER P.C.B	4070001601010	1
9	CHASSIS BACK	3207020596060	1
10	CABINET TOP	3000020316020	1
11	BUTTON POWER	5097021341020	1
12	DECK AUTO REVERSE	8150210000010	1
13	MECHA CASSETTE LOADER	8030000090010	1
14	CORD STOPPER	4380000180000	1
15	AC CORD, 3A-250V	L061000810000	1
16	PCB MAIN ASS'Y	7028021150030	1
17	COVER TRAY	4317020461020	1
<b>SCREWS</b>			
A	SCREW,TAP TITE (+2S 3*8 B-TYPE ZNY/BH)	B020030081B10	16
B	SCREW,TAP TITE (+2S 3*8 B-TYPE BK/FH)	B020030083F10	2
C	SCREW,TAPPING (+2S 2.6*8 ZNY/WPH)	B010226081W10	3
D	SCREW,TAP TITE (+2S 3*8 B-TYPE BK/BH)	B020030083B10	5
E	SCREW,TAP TITE (+3S 4*8 S-TYPE ZNY/BH)	B020740081B10	2
F	SCREW,TAPPING (+2S 3*6 CUT ZNY/PH)	B010530061P10	5
<b>MISCELLANEOUS</b>			
	GIFT BOX	6007020190060	1
	CUSHION,SNOW	6230020364010	1
	POLY BAG	6330020019010	1
	ACCESSORY ASS'Y	6538020150010	1
	DECK MECHA ASS'Y	8158210000010	1

## EXPLODED VIEW

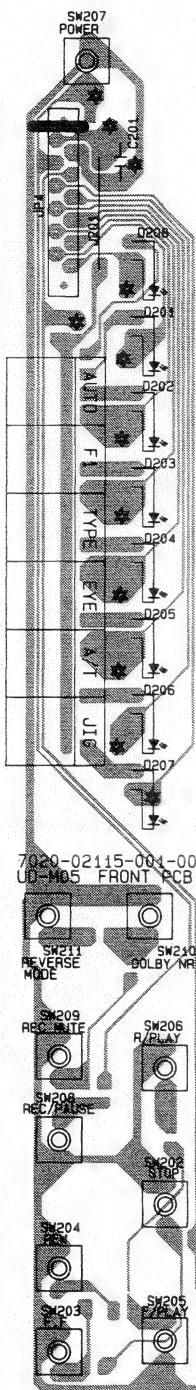
Model No. : DS-500



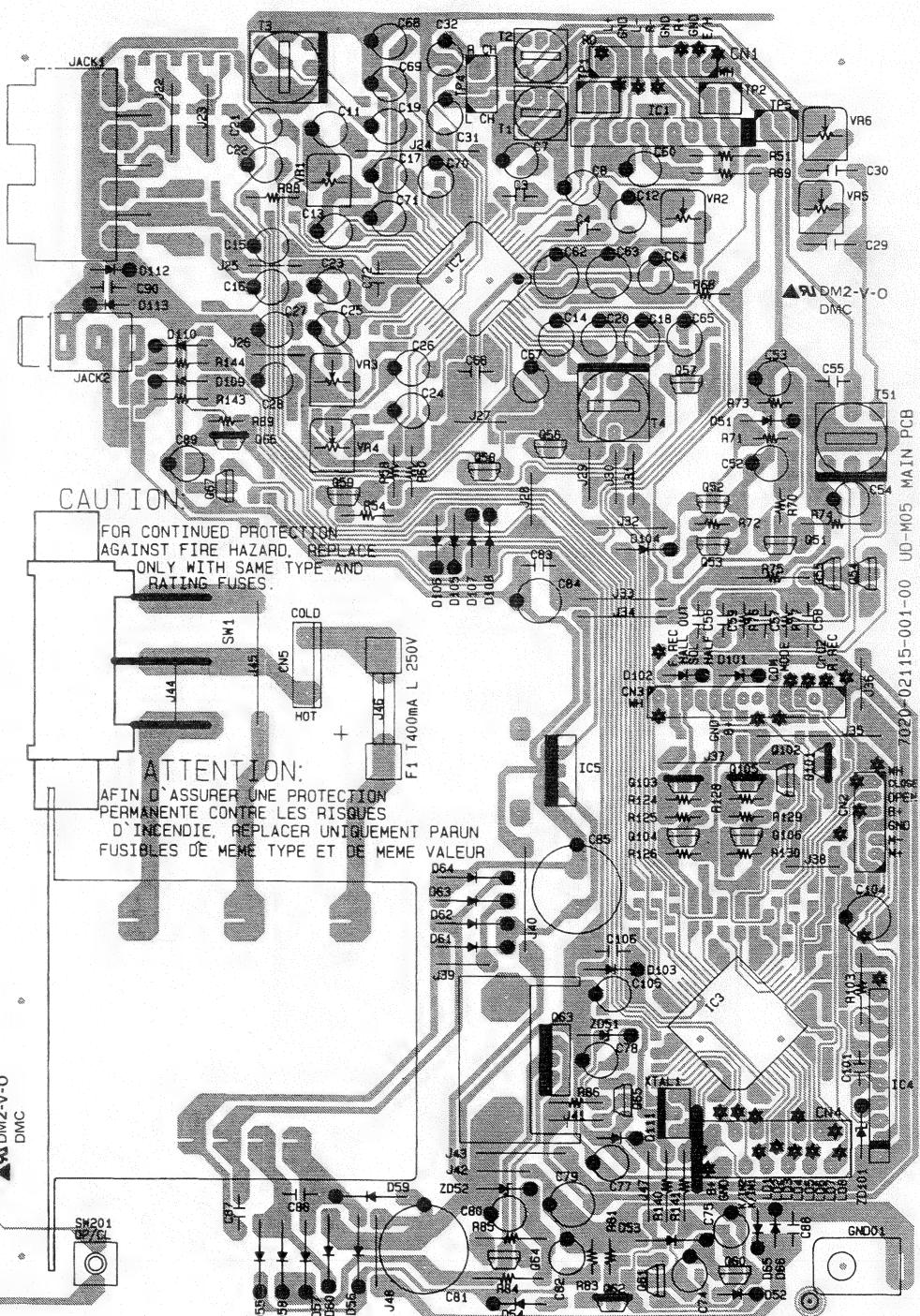
## PRINTED CIRCUIT BOARDS

**Model No. : DS-500**

**FRONT**



## MAIN



## ELECTRICAL PARTS LIST

REF NO.	ITEM				PARTS NO.	Q'TY
C1/C2	CERAMIC CHIP T.C	680 pF	50V	J	D010681167200	2
C101	CERAMIC SEMI DISC	0.1 uF	50V	Z	D006104597050	1
C102	CERAMIC CHIP HIK	0.022 uF	50V	K	D011223777200	1
C103	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C104	ELECT GE 85C	100 uF	16V	M	D040101083050	1
C105	ELECT GE 85C	100 uF	10V	M	D040101082060	1
C106	CERAMIC HIK DISC	0.01 uF	50V	K	D004103277050	1
C107/C108	CERAMIC CHIP T.C	470 pF	50V	J	D010471167200	2
C109/C110	CERAMIC CHIP HIK	0.0047 uF	50V	K	D011472777200	2
C11/C12	ELECT GE 85C	1 uF	50V	M	D040010087050	2
C111/C112	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	2
C13-C22	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	10
C201	CERAMIC HIK DISC	0.022 uF	50V	Z	D004223597050	1
C23-C26	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050	4
C27/C28	ELECT GE 85C	0.22 uF	50V	M	D040R22087050	2
C29/C30	CERAMIC HIK AXIAL	220 pF	50V	K	D005221277520	2
C3/C4	FILM POLYESTER	0.018 uF	50V	J	D020183167050	2
C31/C32	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050	2
C33/C34	CERAMIC CHIP T.C	100 pF	50V	J	D010101167200	2
C5/C6	CERAMIC CHIP T.C	330 pF	50V	J	D010331167200	2
C51	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C52	ELECT GE 85C	10 uF	25V	M	D040100084050	1
C53	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050	1
C54	ELECT GE 85C	10 uF	25V	M	D040100084050	1
C55	C,FILM P.PROPYLENE	0.0082 uF	100V	J	D02182206C050	1
C56	FILM POLYESTER	0.0022 uF	50V	J	D020222167050	1
C57/C58	FILM POLYESTER	0.0033 uF	50V	J	D020332167050	2
C59	FILM POLYESTER	0.015 uF	50V	J	D020153167050	1
C60	ELECT GE 85C	47 uF	16V	M	D040470083050	1
C61	CERAMIC CHIP HIK	0.047 uF	50V	K	D011473777200	1
C62/C63	ELECT GE 85C	100 uF	16V	M	D040101083050	2
C64	ELECT GE 85C	0.68 uF	50V	M	D040R68087050	1
C65	ELECT GE 85C	0.47 uF	50V	M	D040R47087050	1
C66	FILM POLYESTER	0.1 uF	50V	J	D020104167050	1
C67	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	1
C68	ELECT GE 85C	47 uF	16V	M	D040470083050	1
C69	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	1
C7/C8	ELECT GE 85C	22 uF	16V	M	D040220083050	2
C70	ELECT GE 85C	47 uF	16V	M	D040470083050	1
C71	ELECT GE 85C	4.7 uF	50V	M	D0404R7087050	1
C72	FILM POLYESTER	0.1 uF	50V	J	D020104167050	1
C73	CERAMIC CHIP HIK	0.01 uF	50V	Z	D011103597200	1
C74	ELECT GE 85C	1 uF	50V	M	D040010087050	1
C75	ELECT GE 85C	2.2 uF	50V	M	D0402R2087050	1

REF NO.	ITEM	PARTS NO.			Q'TY
C76	CERAMIC CHIP HIK 0.047 uF 50V K	D011473777200			1
C77	ELECT GE 85C 100 uF 10V M	D040101082060			1
C78	ELECT GE 85C 10 uF 25V M	D040100084050			1
C79	ELECT GE 85C 100 uF 16V M	D040101083050			1
C80	ELECT GE 85C 10 uF 25V M	D040100084050			1
C81	ELECT GE 85C 1000 uF 25V M	D040102084000			1
C82	ELECT GE 85C 1 uF 50V M	D040010087050			1
C83	CERAMIC HIK DISC 0.01 uF 50V K	D004103277050			1
C84	ELECT GE 85C 100 uF 16V M	D040101083050			1
C85	ELECT GE 85C 2200 uF 16V M	D040222083060			1
C86/C87	CERAMIC HIK DISC 0.022 uF 50V Z	D004223597050			2
C88	CERAMIC HIK DISC 0.01 uF 50V K	D004103277050			1
C89	ELECT GE 85C 1 uF 50V M	D040010087050			1
C9/C10	CERAMIC CHIP HIK 0.0027 uF 50V K	D011272777200			2
C90	CERAMIC HIK DISC 0.01 uF 50V K	D004103277050			1
CN1	WAFER 2.0MM (8P)	L101530140810			1
CN2	WAFER 2.0MM (6P)	L101530140610			1
CN3	WAFER 2.0MM (13P)	L101530141310			1
CN4	WIRE TRAP 1.5MM (12P)	L140520041210			1
CN5	WAFER 7.92MM (2P)	L108039602010			1
D101-D113	1SS131T, SWITCHING	K000013100520			13
D201-D208	LED,ROUND	K500062003030			8
D51-D56	1SS131T, SWITCHING	K000013100520			6
D57-D64	1N4002A, RECTIFIER	K040400200520			8
D65	1SS131T, SWITCHING	K000013100520			1
D66	1SS131T, SWITCHING	K000013100520			1
F1	FUSE (0.4A-250V)	G650401251040			1
FUSE CLIP	HOLDER,FUSE CLIP	G645000010020			1
GND01	TERMINAL	3790000120000			1
IC1	UPC1330HA, LOGIC	J040133000010			1
IC2	CXA1897Q, LINEAR EQ	J123189700010			1
IC3	HD404356A33H-QFP44P, CPU MICRO	J020404356010			1
IC4	BA6209N, LINEAR	J127620900010			1
IC5	KIA7809P, REGULATOR	J126780900030			1
J01-J13	CHIP THICK 0 Ohm 1/8W J	C200000061300			13
J15-J21	CHIP THICK 0 Ohm 1/8W J	C200000061300			7
J201	WIRE 1P	L045084006040			1
J22-J44	WIRE 1P	L045084006040			23
J47/J48	WIRE 1P	L045084006040			2
JACK1	RCA 4PIN	G602040131010			1
JACK2	JACK,D3.5	G401031102010			1
JP4	CABLE 1.5MM, 12P	L110510161210			1
JP4	FLAT WIRE, 12P	L322261122610			1
Q1-Q4	DTC343TK, NPN	J5220343T0210			4

REF NO.	ITEM	PARTS NO.	Q'TY	
Q101	DTA144ES, PNP	J6000144E0010	1	
Q102	DTC124ES, NPN	J6020124E0010	1	
Q103	KTA1273Y, PNP	J5001273Y0050	1	
Q104	2SC1740SR, NPN	J5021740S0010	1	
Q105	KTA1273Y, PNP	J5001273Y0050	1	
Q106	2SC1740SR, NPN	J5021740S0010	1	
Q51	KTC3205Y, NPN	J5023205Y0020	1	
Q52	DTC143TS, NPN	J6020143T0010	1	
Q53	DTC124ES, NPN	J6020124E0010	1	
Q54/Q55	2SC1740SR, NPN	J5021740S0010	2	
Q56	DTC124ES, NPN	J6020124E0010	1	
Q57	DTC143TS, NPN	J6020143T0010	1	
Q58-Q60	DTC124ES, NPN	J6020124E0010	3	
Q61	2SC1740SR, NPN	J5021740S0010	1	
Q62	2SA933S, PNP	J5000933S0050	1	
Q63	HEAT SINK	2120020238030	1	
Q63	KTD2058Y, NPN	J5032058Y0140	1	
Q64	2SC1740SR, NPN	J5021740S0010	1	
Q65	KTC3205Y, NPN	J5023205Y0020	1	
Q66	2SA933S, PNP	J5000933S0050	1	
Q67	2SC1740SR, NPN	J5021740S0010	1	
R1/R2	CHIP THICK	10 Ohm 1/10W J	C200010060200	2
R101/R102	CHIP THICK	1 Kohm 1/10W J	C200010260200	2
R103	CARBON FILM	10 Ohm 1/4W J	C000010063520	1
R104-R107	CHIP THICK	1 Kohm 1/10W J	C200010260200	4
R108-R113	CHIP THICK	100 Kohm 1/10W J	C200010460200	6
R11-R16	CHIP THICK	5.6 Kohm 1/10W J	C200056260200	6
R114-R121	CHIP THICK	1 Kohm 1/10W J	C200010260200	8
R122	CHIP THICK	10 Kohm 1/10W J	C200010360200	1
R123	CHIP THICK	1 Kohm 1/10W J	C200010260200	1
R124	CARBON FILM	47 Kohm 1/5W J	C00004736P520	1
R125	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R126	CARBON FILM	100 Kohm 1/5W J	C00001046P520	1
R127	CHIP THICK	4.7 Kohm 1/10W J	C200047260200	1
R128	CARBON FILM	47 Kohm 1/5W J	C00004736P520	1
R129	CARBON FILM	3.3 Kohm 1/5W J	C00003326P520	1
R130	CARBON FILM	100 Kohm 1/5W J	C00001046P520	1
R131	CHIP THICK	4.7 Kohm 1/10W J	C200047260200	1
R132-R138	CHIP THICK	1 Kohm 1/10W J	C200010260200	7
R139	CHIP THICK	100 Kohm 1/10W J	C200010460200	1
R140/R141	CARBON FILM	1 Kohm 1/5W J	C00001026P520	2
R142	CHIP THICK	1 Mohm 1/10W J	C200010560200	1
R143/R144	CARBON FILM	100 Kohm 1/5W J	C00001046P520	2
R145/R146	CHIP THICK	330 Ohm 1/10W J	C200033160200	2

REF NO.	ITEM	PARTS NO.	Q'TY
R147/R148	CHIP THICK	100 Kohm 1/10W J	C200010460200
R150/R151	CHIP THICK	47 Kohm 1/10W J	C200047360200
R152/R153	CHIP THICK	100 Kohm 1/10W J	C200010460200
R154	CHIP THICK	47 Kohm 1/10W J	C200047360200
R17/R18	CHIP THICK	10 Kohm 1/10W J	C200010360200
R201-R208	CHIP THICK	430 Ohm 1/10W J	C200043160200
R209-R212	CHIP THICK	33 Kohm 1/10W J	C200033360200
R21/R22	CHIP THICK	10 Kohm 1/10W J	C200010360200
R213	CHIP THICK	680 Ohm 1/10W J	C200068160200
R214	CHIP THICK	820 Ohm 1/10W J	C200082160200
R215	CHIP THICK	1.5 Kohm 1/10W J	C200015260200
R216	CHIP THICK	2.2 Kohm 1/10W J	C200022260200
R217	CHIP THICK	4.7 Kohm 1/10W J	C200047260200
R218	CHIP THICK	680 Ohm 1/10W J	C200068160200
R219/R220	CHIP THICK	3.9 Kohm 1/10W J	C200039260200
R221	CHIP THICK	820 Ohm 1/10W J	C200082160200
R222	CHIP THICK	1.5 Kohm 1/10W J	C200015260200
R223	CHIP THICK	2.2 Kohm 1/10W J	C200022260200
R23/R24	CHIP THICK	220 Kohm 1/10W J	C200022460200
R25/R26	CHIP THICK	75 Kohm 1/10W J	C200075360200
R27/R28	CHIP THICK	470 Ohm 1/10W J	C200047160200
R3/R4	CHIP THICK	220 Kohm 1/10W J	C200022460200
R33/R34	CHIP THICK	47 Kohm 1/10W J	C200047360200
R35/R36	CHIP THICK	100 Ohm 1/10W J	C200010160200
R37-R40	CHIP THICK	1.5 Kohm 1/10W J	C200015260200
R5/R6	CHIP THICK	120 Ohm 1/10W J	C200012160200
R51	CARBON FILM	1 Kohm 1/5W J	C00001026P520
R52	CHIP THICK	12 Kohm 1/10W J	C200012360200
R53	CHIP THICK	33 Kohm 1/10W J	C200033360200
R54	CARBON FILM	47 Kohm 1/5W J	C00004736P520
R55	CHIP THICK	33 Kohm 1/10W J	C200033360200
R56	CHIP THICK	27 Kohm 1/10W J	C200027360200
R57	CHIP THICK	10 Kohm 1/10W J	C200010360200
R58	CARBON FILM	1 Kohm 1/5W J	C00001026P520
R59	CHIP THICK	47 Kohm 1/10W J	C200047360200
R60	CARBON FILM	10 Kohm 1/5W J	C00001036P520
R61	CHIP THICK	18 Kohm 1/10W J	C200018360200
R62	CHIP THICK	1 Kohm 1/10W J	C200010260200
R63	CHIP THICK	4.7 Kohm 1/10W J	C200047260200
R64	CHIP THICK	470 Kohm 1/10W J	C200047460200
R65	CHIP THICK	100 Kohm 1/10W J	C200010460200
R66	CHIP THICK	120 Kohm 1/10W J	C200012460200
R67	CHIP THICK	1 Kohm 1/10W J	C200010260200
R68	CARBON FILM	100 Ohm 1/5W J	C00001016P520

REF NO.	ITEM	PARTS NO.	Q'TY
R69	CARBON FILM 150 Ohm 1/5W J	C00001516P520	1
R7/R8	CHIP THICK 6.8 Kohm 1/10W J	C200068260200	2
R70/R71	CARBON FILM 680 Ohm 1/5W J	C00006816P520	2
R72	CARBON FILM 2.7 Kohm 1/5W J	C00002726P520	1
R73	CARBON FILM 47 Kohm 1/5W J	C00004736P520	1
R74	CARBON FILM 10 Ohm 1/4W J	C000010063520	1
R75	CARBON FILM 5.6 Ohm 1/4W J	C0005R6063520	1
R76/R77	CARBON FILM 15 Kohm 1/5W J	C00001536P520	2
R78/R79	CHIP THICK 10 Kohm 1/10W J	C200010360200	2
R80	CHIP THICK 4.7 Kohm 1/10W J	C200047260200	1
R81	CARBON FILM 10 Kohm 1/5W J	C00001036P520	1
R82	CHIP THICK 2.2 Kohm 1/10W J	C200022260200	1
R83	CARBON FILM 3.3 Kohm 1/5W J	C00003326P520	1
R84	CARBON FILM 390 Ohm 1/4W J	C000039163520	1
R85	CARBON FILM 10 Ohm 1/4W J	C000010063520	1
R86	CARBON FILM 1 Kohm 1/5W J	C00001026P520	1
R87	CHIP THICK 100 Ohm 1/10W J	C200010160200	1
R88	CARBON FILM 10 Kohm 1/5W J	C00001036P520	1
R89	CARBON FILM 22 Kohm 1/5W J	C00002236P520	1
R9/R10	CHIP THICK 2.4 Kohm 1/10W J	C200024260200	2
R90/R91	CHIP THICK 4.7 Kohm 1/10W J	C200047260200	2
SW201-SW211	TACT SW	G180000270000	11
T1/T2	COIL,TRAP	D302126522400	2
T3/T4	FILTER,LC MPX	E401503000000	2
T51	TRANS,OSC BIAS	E080516900000	1
TP1/TP2	WAFER 2.0MM, 2P	L101530140210	2
TP4	WAFER 2.0MM, 3P	L101530140310	1
TP5	WAFER 2.0MM, 2P	L101530140210	1
POWER TRANS	220V/60Hz	8200520002050	1
VR1/VR2	SEMI CERMET, 10K	C544103015130	2
VR3/VR4	SEMI CERMET, 22K	C544223015140	2
VR5/VR6	SEMI CERMET, 100K	C544104015140	2
XTAL1	RESONATOR, 4.19M	E8304R1000000	1
ZD101	ZENER, 7.5V	K06007R544520	1
ZD51	ZENER, 6.2V	K06006R244520	1
ZD52	ZENER, 13V	K06013R044520	1

# DS500 IS CONSIST OF 1 BOARD #

\* ASS'Y PCB (MAIN+FRONT) PART NO : 7028021150030

## IC'S FUNCTIONAL BLOCK DIAGRAM

### \* ADJUSTMENTS (Front Roading Cassette Deck)

#### 1. AZIMUTH Adjustment

- (1) Connect line out of set to oscilloscope (or VTVM).
- (2) After FEW playing TCC-154 tape, make speaker L/R output maximum by control left screw of Deck head.
- (3) After RVS playing TCC-154 tape, make speaker L/R output maximum by control right screw of Deck head.

#### 2. TAPE SPEED Adjustment

- (1) Connect line out of set to frequency counter.
- (2) Check whether during FWD/RVS play, Counter value is  $3\text{KHz} \pm 30\text{Hz}$  in the location of tape center by playing TCC-111 tape.
- (3) After checking above if value go over that above spec, control it to meet the spec by controlling semi-fixed register located in Deck motor.

#### 3. DOLBY LEVEL Adjustment

- (1) Connect line out of set to VTVM.
- (2) Control for the VTVM indicating value to be within  $395\text{mV}(-6\text{dB}) \pm 0.5\text{dB}$  by FWD playing TCC-130 tape.
- (3) Check whether the VTVM indicating value is within  $395\text{mV}(-6\text{dB}) \pm 0.5\text{dB}$  by RVS playing TCC-130 tape.
- (4) In case the VTVM indication value do not meet  $395\text{mV}(-6\text{dB}) \pm 1.0\text{dB}$ , re-control VR1/VR2 to be within  $395\text{mV}(-6\text{dB}) \pm 1.0\text{dB}$  when FWD play, RVS play.

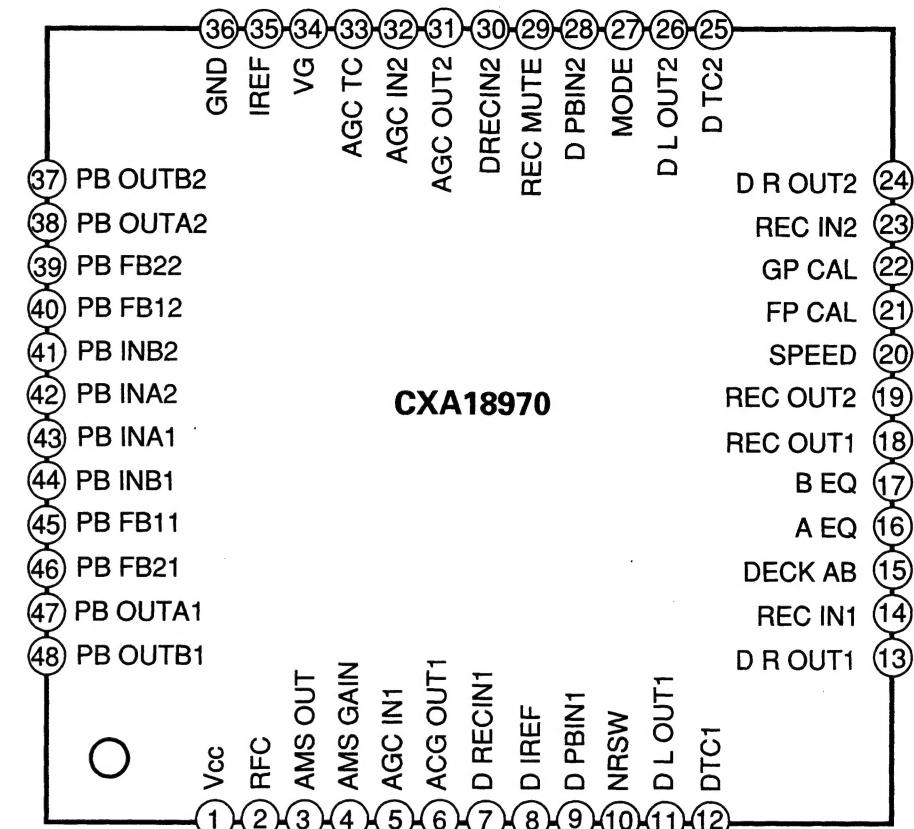
#### 4. REC LEVEL Adjustment

- (1) Adjustment VR3/VR4 to be located in center.
- (2) Connect line out of set to VTVM.
- (3) Connect to line in after setting RC oscillator output to be 400Hz, 120mV(-16dB).
- (4) During recording with TCC-203 Tape, control VR3/VR4 for TP4 VTVM indication value to be  $220\text{mV} (-11\text{dBm}) \pm 0.1\text{dB}$ .
- (5) Control as above mentioned, re-check as follows.
- (6) Check whether recording line out indication value is  $\pm 1.0\text{dB}$  when FWD, RVS record/play. If it's not, re-control VR3/VR4 for FWD, RVS record/play REC indication value to be  $\pm 1.0\text{dB}$ .

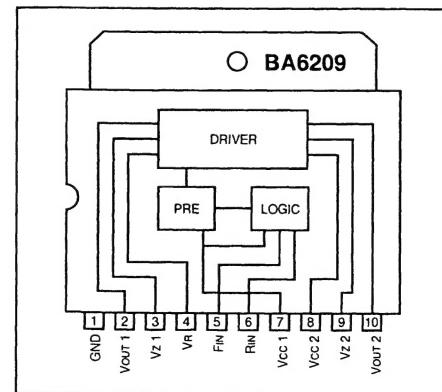
#### 5. REC BIAS Adjustment

- (1) Connect test point TP1/TP2 of deck PCB to VTVM.
- (2) During recording dolby off,  $\text{CrO}_2$  tape(TCC-203), control VR5/VR6 for the TP1/TP2 indication value to be 6mV.
- (3) Control as above mentioned, re-check as follows.
- (4) Connect to line in after set RC oscillator output to be 28mV.
- (5) Check whether the gab between 400Hz & 12.5KHz play value is  $\pm 1.5\text{dB}$  after dolby switch on, recording 400Hz & 12.5KHz with TCC-107B tape.
- (6) By repeating above 5) clause with TCC-203B tape, check whether it's within  $\pm 3\text{dB}$ .
- (7) If it's not, re-control VR5/VR6 for the gab between 400Hz & 12.5KHz play value to be within  $\pm 3\text{dB}$  after recording TCC-107B/TCC-203B tape.

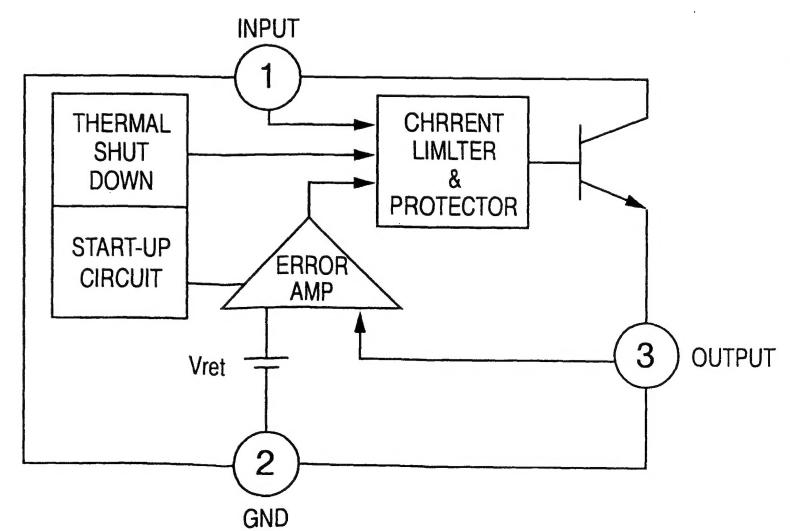
CXA 1897Q : IC100



BA6209 : IC4



KIA7809 : IC5



# SCHEMATIC DIAGRAM

Model No. : DS-500

